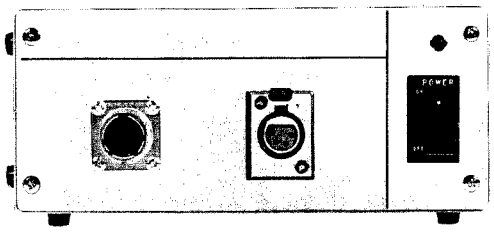
SONY

AC ADAPTOR
NETZADAPTER
ADAPTATEUR D'ALIMENTATION

AC-500CE



OPERATION AND MAINTENANCE MANUAL
ANLEITUNG FÜR BEDIENUNG UND WARTUNG
MODE D'EMPLOI ET D'ENTRETIEN
1st Edition (Revised 18)
Serial No. 10001 and Higher

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SECTION 1
OPERATION

1-1. FUNCTION

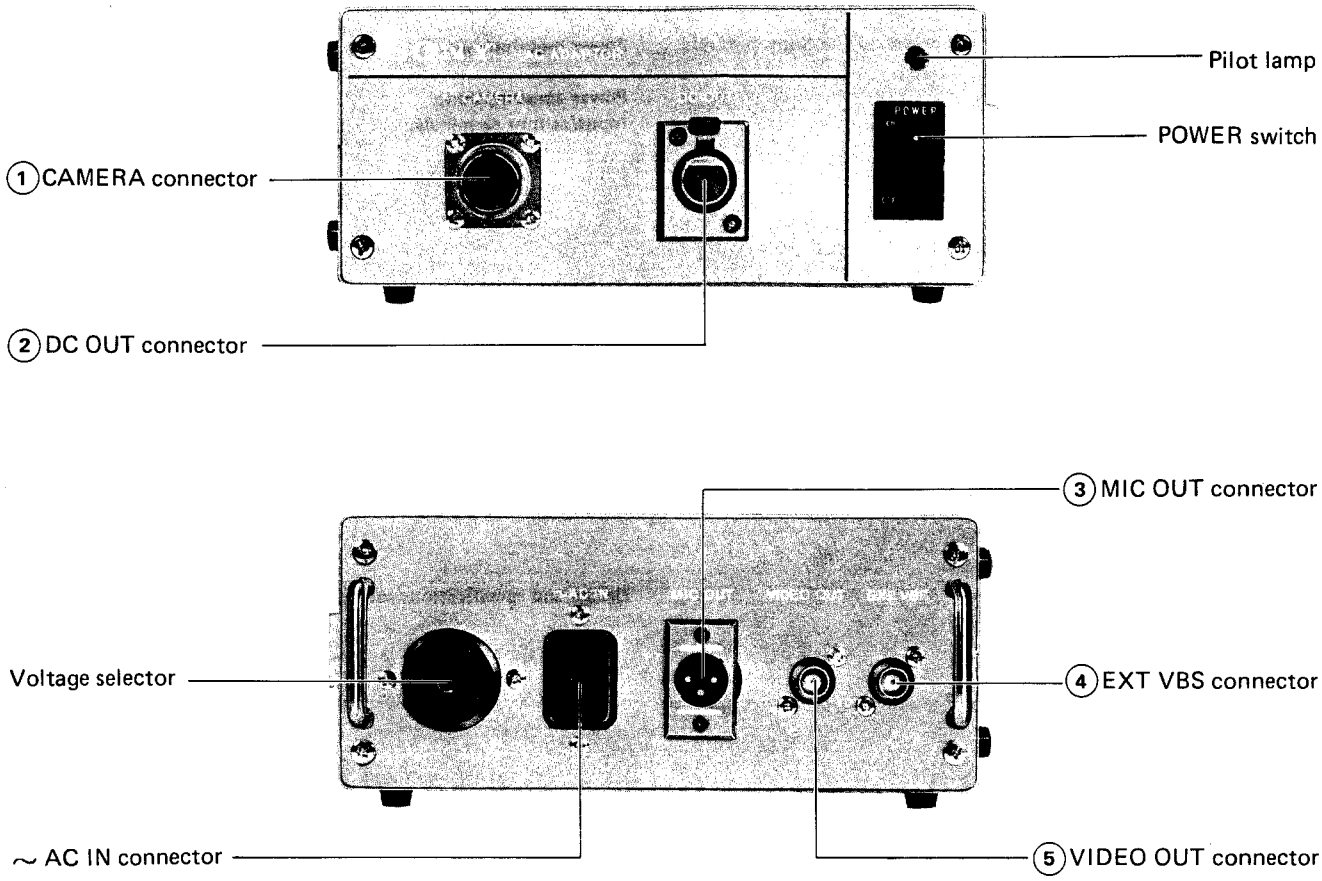
This AC adaptor is used to supply DC power to the Sony portable BV series equipment.

1-2. SPECIFICATIONS

Power requirements:	100, 120, 220 or 240 V AC adjustable, 50/60 Hz
Power consumption:	120 W Max.
Input/output terminals:	CAMERA connector (14-pin) VIDEO OUT connector (BNC type) PAL/SECAM 1 Vp-p, 75 ohms MIC OUT connector (equivalent to XLR-3-31) Reference output: −60 dBm 600 ohms, balanced DC OUT connector (equivalent to XLR-4-31) +12.3 V, 7 A EXT VBS input connector (BNC type) VBS (1 Vp-p) or BS, 75 ohms
Weight:	4.3 kg (9.5 lbs)
Dimensions:	217 x 91 x 327 mm (w/h/d) (8.5 x 3.6 x 12.9 inches)
Supplied accessories:	AC power cord DC cord

Design and specifications subject to change without notice.

1-3. LOCATION OF PARTS AND CONTROLS



① **CAMERA connector**
14-pin multiple connector — for CCQ cable

Pin arrangement

1	DC(GND)
2	DC 12.3V
3	MIC
4	MIC
5	MIC (GND)
6	VIDEO IN
7	VIDEO (GND)
8	
9	
10	BATT INDICATOR out
11	REC lamp out
12	+12V out (REC lamp)
13	REC SIG IN
14	Power saving signal in

② **DC OUT connector**
XLR-4P connector — for DC cord

Pin arrangement

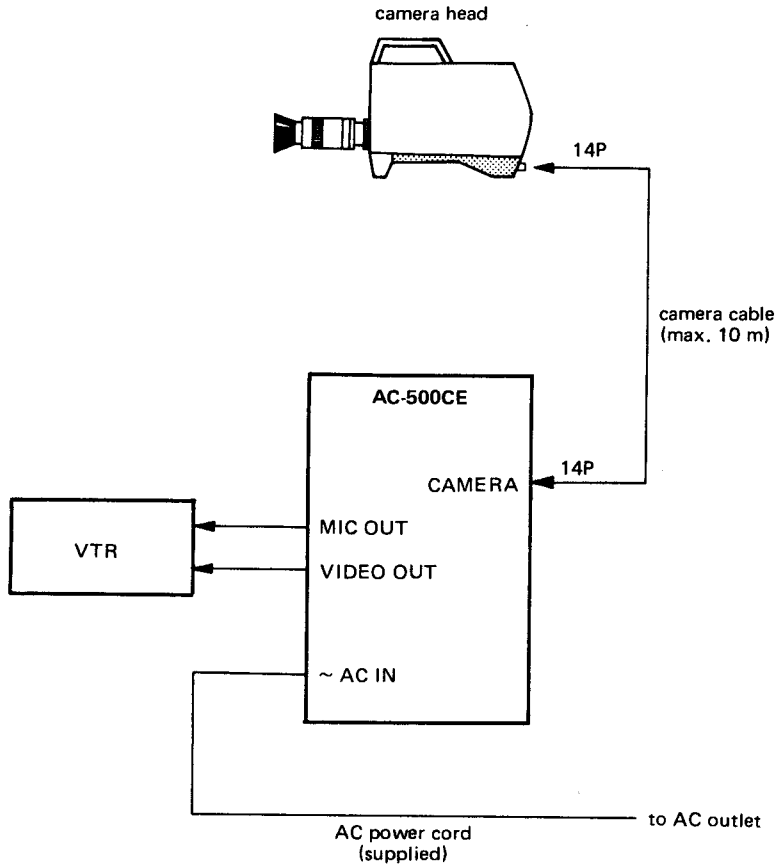
1	GND
2	
3	
4	+12.3V

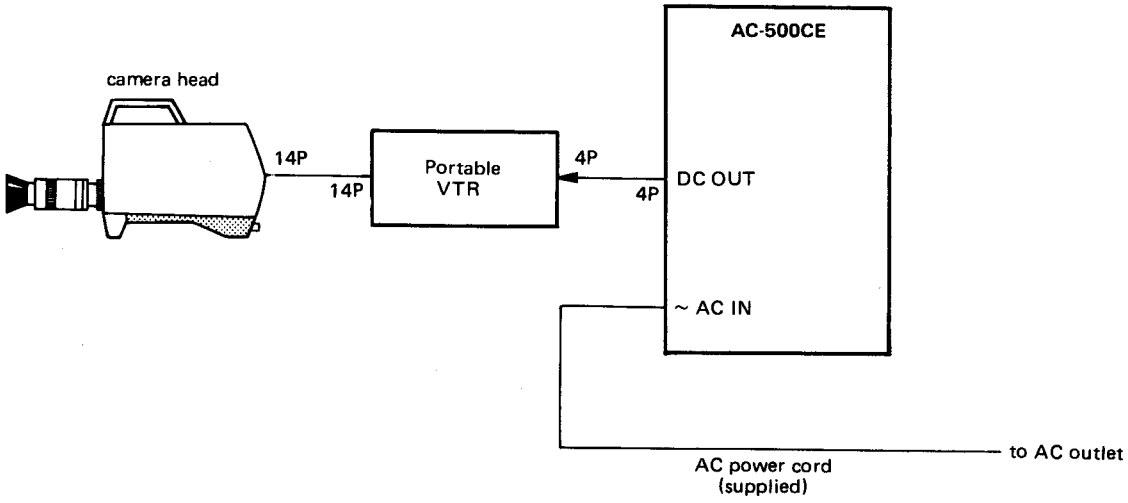
③ **MIC OUT connector**
XLR male connector — for shielded cable
−60 dB, 600 ohms, balanced.

④ **EXT VBS input connector**
BNC connector — for coaxial cable
Accepts VBS (1.0 Vp-p) input signal.

⑤ **VIDEO OUT connector**
BNC connector — for coaxial cable
composite video 1.0 Vp-p

1-4. CONNECTIONS





TEIL 1
BEDIENUNG

1-1. VERWENDUNGSZWECK

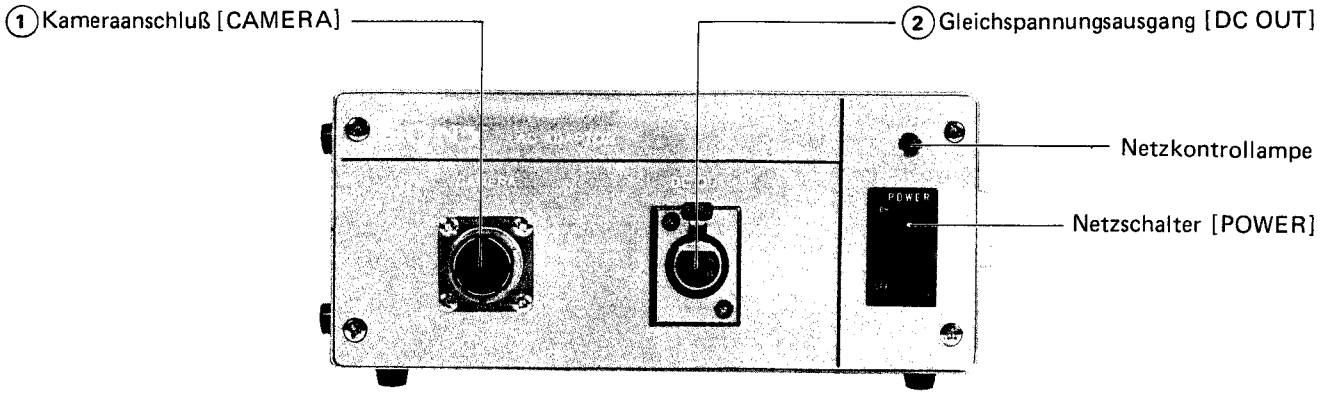
Dieser Netzadapter dient zur Gleichstromversorgung von tragbaren Sony Videoanlagen der BV Serie.

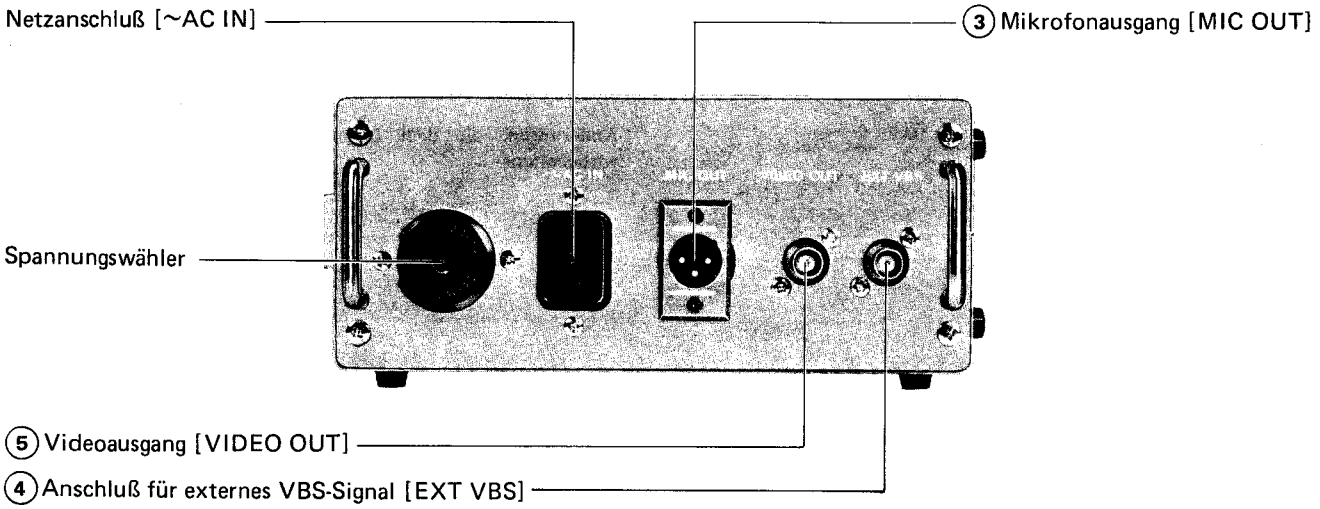
1-2. TECHNISCHE DATEN

Stromversorgung:	100, 120, 220 oder 240 V Wechselspannung einstellbar, 50/60 Hz
Leistungsaufnahme:	120 W (max.)
Eingänge/Ausgänge:	Kameraeingang [CAMERA] (14 polig) Videoausgang [VIDEO OUT] (BNC-Anschluß) PAL/SECAM 1 V S-S, 75 Ohm Mikrofonausgang [MIC OUT] (wie bei XLR-3-31) Bezugspegel: –60 dBm 600 Ohm symmetrisch Gleichspannungsausgang [DC OUT] (wie bei XLR-4-31) +12,3 V, 7 A. Anschluß für externes VBS-Signal [EXT VBS], BNC-Anschluß. VBS (1 V S-S), 75 Ohm
Gewicht:	ca. 4,3 kg
Abmessungen:	217 x 91 x 327 mm (B/H/T)
Mitgeliefertes Zubehör:	Netzkabel Gleichspannungskabel

Änderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

1-3. ANORDNUNG DER TEILE UND BEDIENUNGSELEMENTE





① **Kameraanschluß [CAMERA]**
14-poliger Mehrfachstecker —für CCQ-Kabel

Stiftbelegung

1	Gleichstrom (Erde)
2	12,3V Gleichstrom
3	Mikrofon
4	Mikrofon
5	Mikrofon (Erde)
6	Videoeingang
7	Video (Erde)
8	
9	
10	Ausgang für Batterieanzeige [BATT INDICATOR]
11	Ausgang für Aufnahmelampe [REC]
12	12V Ausgang für Aufnahmelampe
13	Eingang für Aufnahmesignal [REC SIG IN]
14	Impulseingang zur Steuerung des Stromsparbetriebes

② **Gleichspannungsausgang [DC OUT]**
XLR-4P-Anschluß — für Gleichspannungskabel

Stiftbelegung

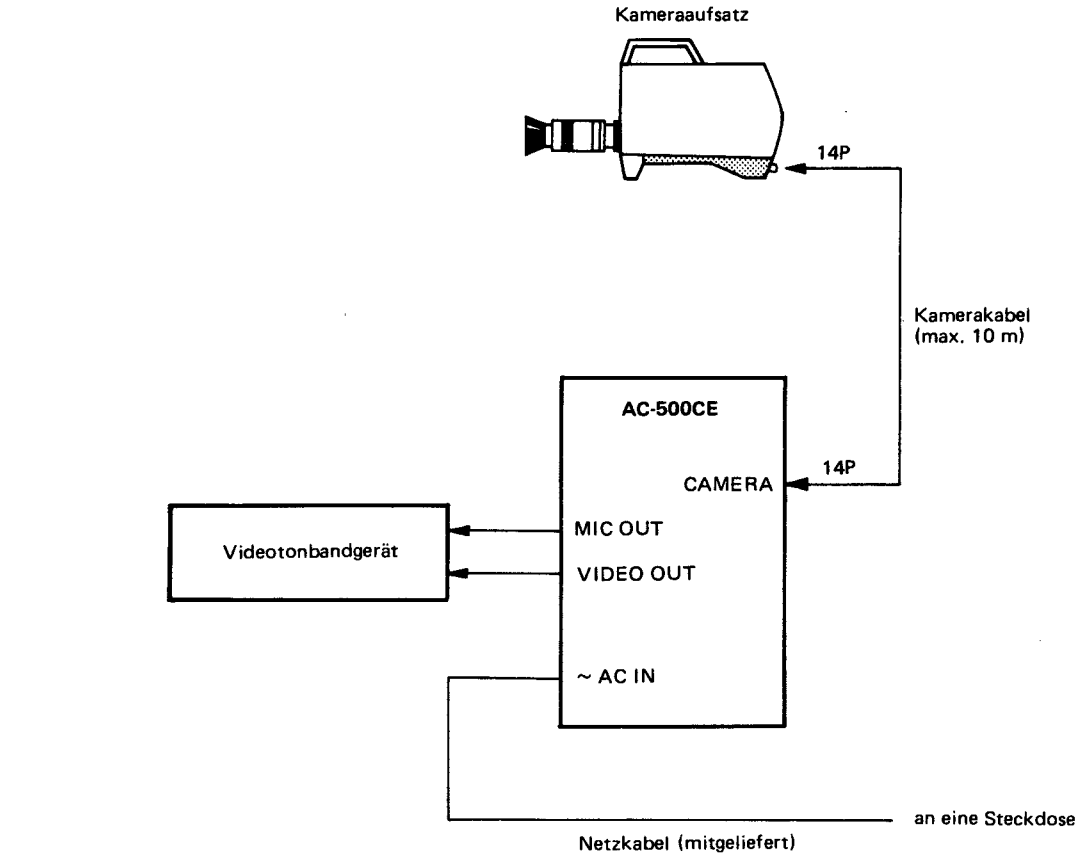
1	Erde
2	
3	
4	+12,3V

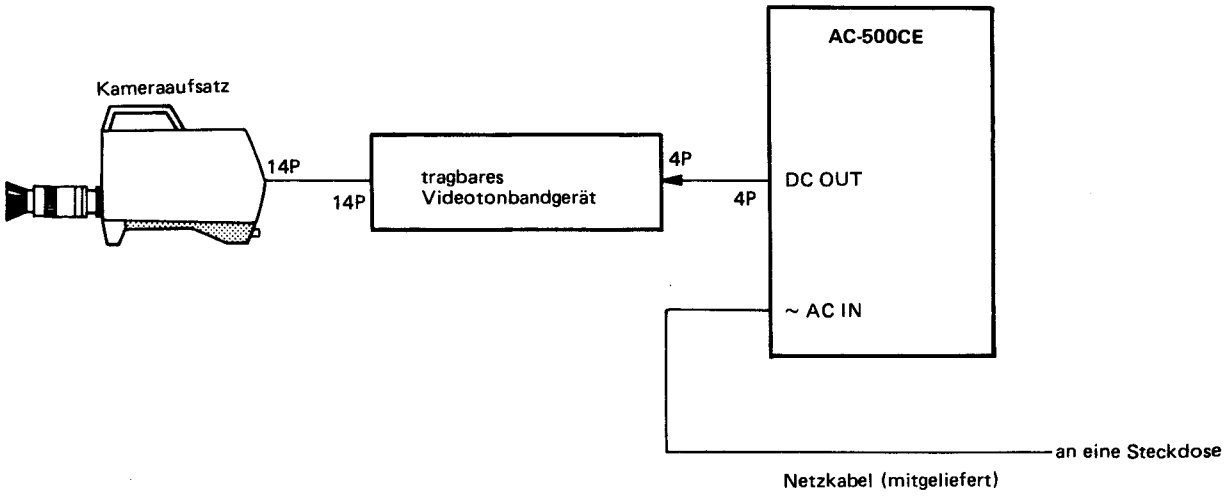
③ **Mikrofonausgang [MIC OUT]**
XLR-Stecker—für geschirmtes Kabel
–60 dB, 600 Ohm, symmetrisch

④ **Eingang für externes VBS Signal [EXT VBS]**
BNC-Anschluß — für Koaxialkabel
VBS (1,0 V S-S) Signale.

⑤ **Videoausgang [VIDEO OUT]**
BNC-Anschluß — für Koaxialkabel
VBS-Signalpegel 1,0 V S-S

1-4. ANSCHLÜSSE





SECTION 1
FONCTIONNEMENT

1-1. FONCTION

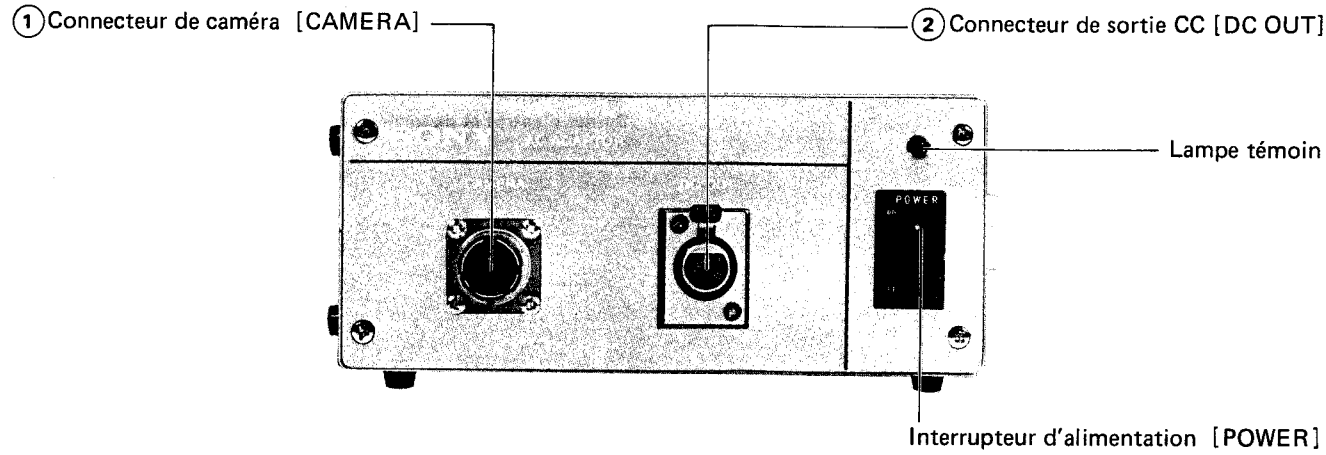
Cet adaptateur d'alimentation est utilisé pour fournir une alimentation en courant continu aux appareils portatifs Sony de série BV.

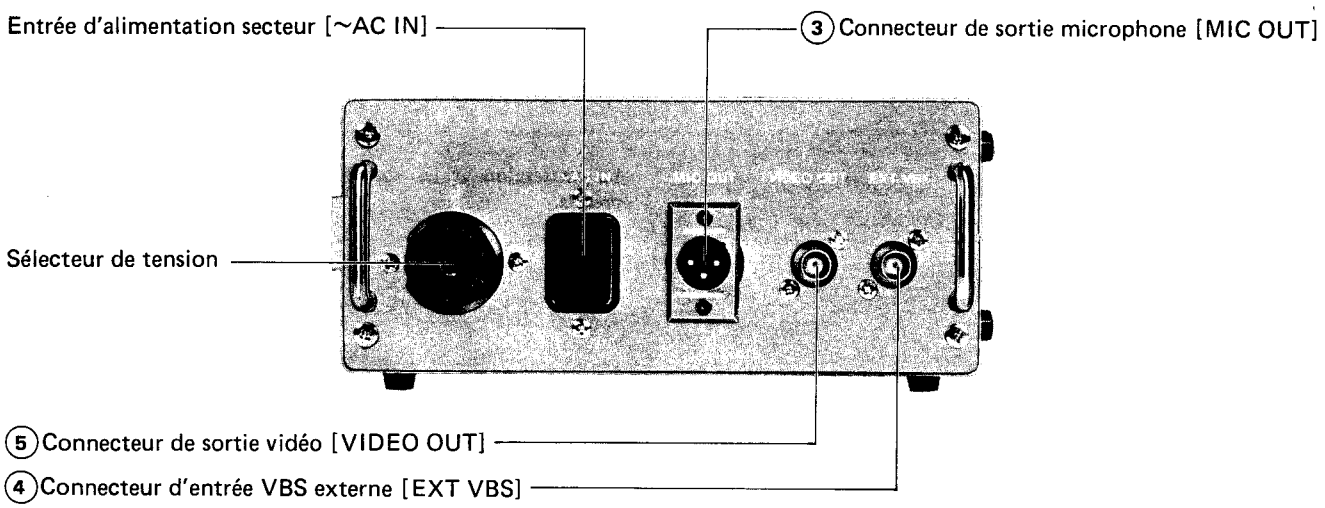
1-2. SPECIFICATIONS

Alimentation:	Secteur 110, 120, 220 ou 240 V réglable, 50/60Hz
Consommation:	120W Max.
Bornes d'entrée et de sortie:	Connecteur de caméra [CAMERA] (14 broches) Connecteur de sortie vidéo [VIDEO OUT] (type BNC) PAL/SECAM 1Vc-c, 75 ohms Connecteur de sortie microphone [MIC OUT] (équivalent au XLR-3-31) Sortie référence: –60 dBm 600 ohms, équilibré Connecteur de sortie CC [DC OUT] (équivalent au XLR-4-31) +12,3 V, 7 A Connecteur d'entrée VBS externe (type BNC) VBS (1 Vc-c) ou BS, 75 ohms
Poids:	4,3 kg
Dimensions:	217 x 91 x 327 mm (l/h/p)
Accessoires fournis :	Cordon d'alimentation secteur Cordon courant continu

La conception et les spécifications peuvent être modifiées sans préavis.

1-3. EMPLACEMENT DES COMMANDES




Entrée d'alimentation secteur [~AC IN]
③ Connecteur de sortie microphone [MIC OUT]
Sélecteur de tension
⑤ Connecteur de sortie vidéo [VIDEO OUT]
④ Connecteur d'entrée VBS externe [EXT VBS]

① **Connecteur de caméra [CAMERA]**
Connecteur multiple à 14 broches – pour câble CCQ

Dénomination des broches

1	Courant continu (terre)
2	Courant continu 12,3V
3	Microphone
4	Microphone (terre)
6	Entrée vidéo
7	Vidéo (terre)
8	
9	
10	Sortie indicateur batterie
11	Sortie voyant d'enregistrement
12	Sortie +12V (voyant d'enregistrement)
13	Entrée signal enregistrement
14	Entrée signal d'économie de puissance

② **Connecteur de sortie CC [DC OUT]**
Connecteur XLR-4P – pour cordon courant continu

Dénomination des broches

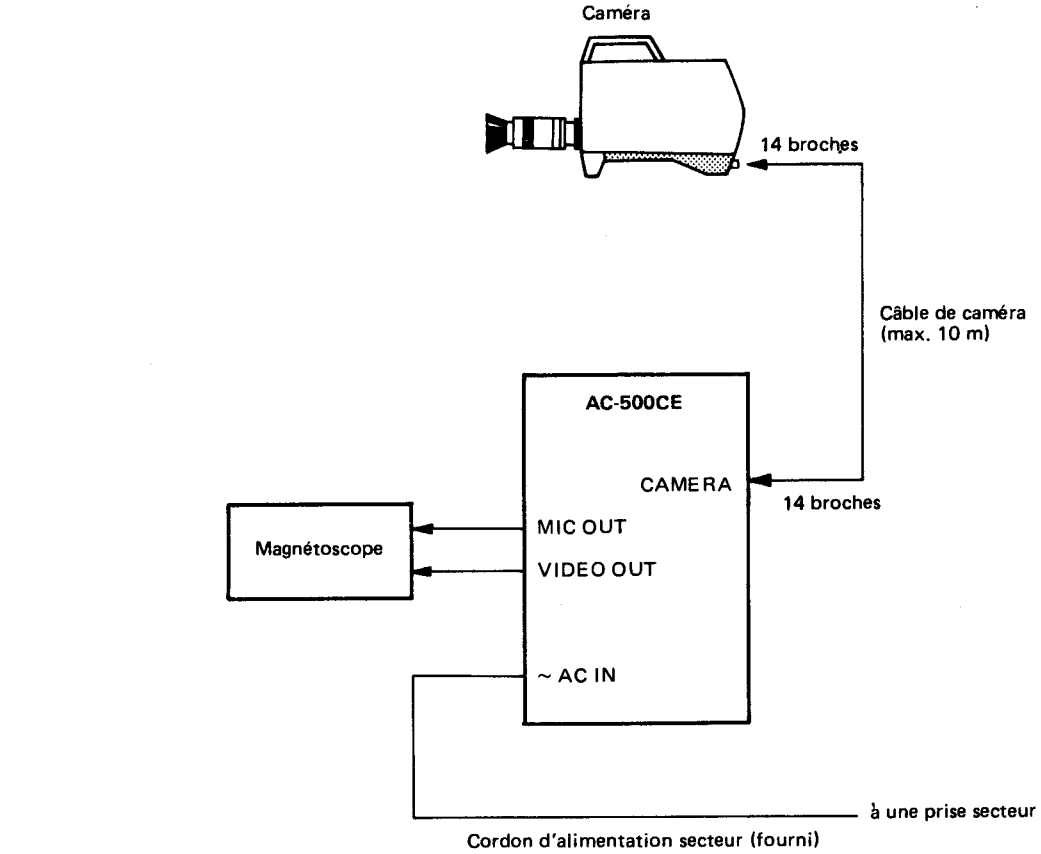
1	Terre [GND]
2	
3	
4	+12,3V

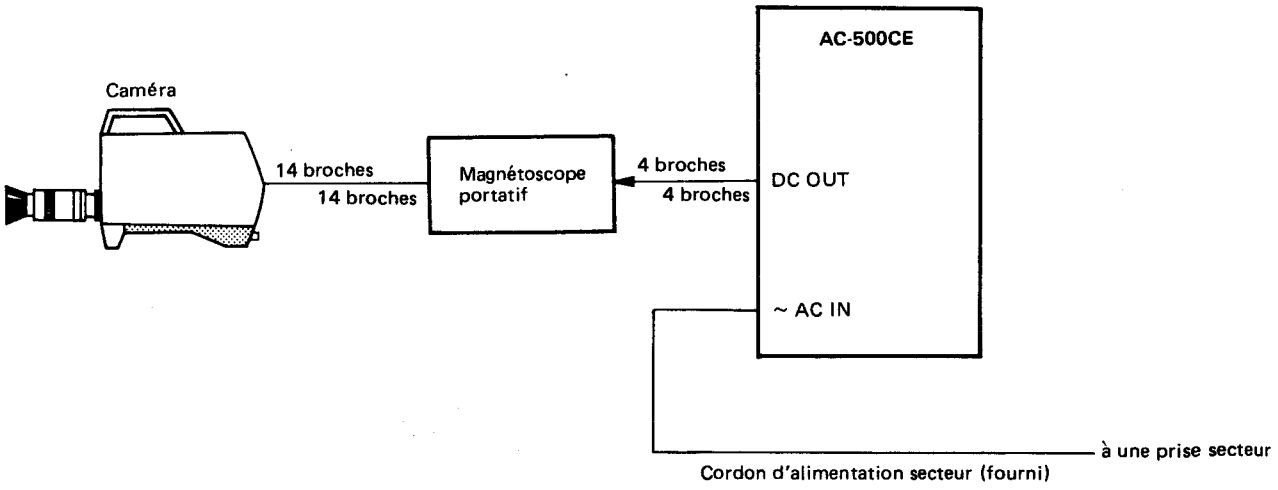
③ **Connecteur de sortie microphone [MIC OUT]**
Connecteur mâle XLR – pour câble blindé
–60 dB, 600 ohms, équilibré

④ **Connecteur d'entrée VBS externe [EXT VBS]**
Connecteur BNC – pour câble coaxial
Accepte un signal d'entrée VBS (1,0 Vc-c).

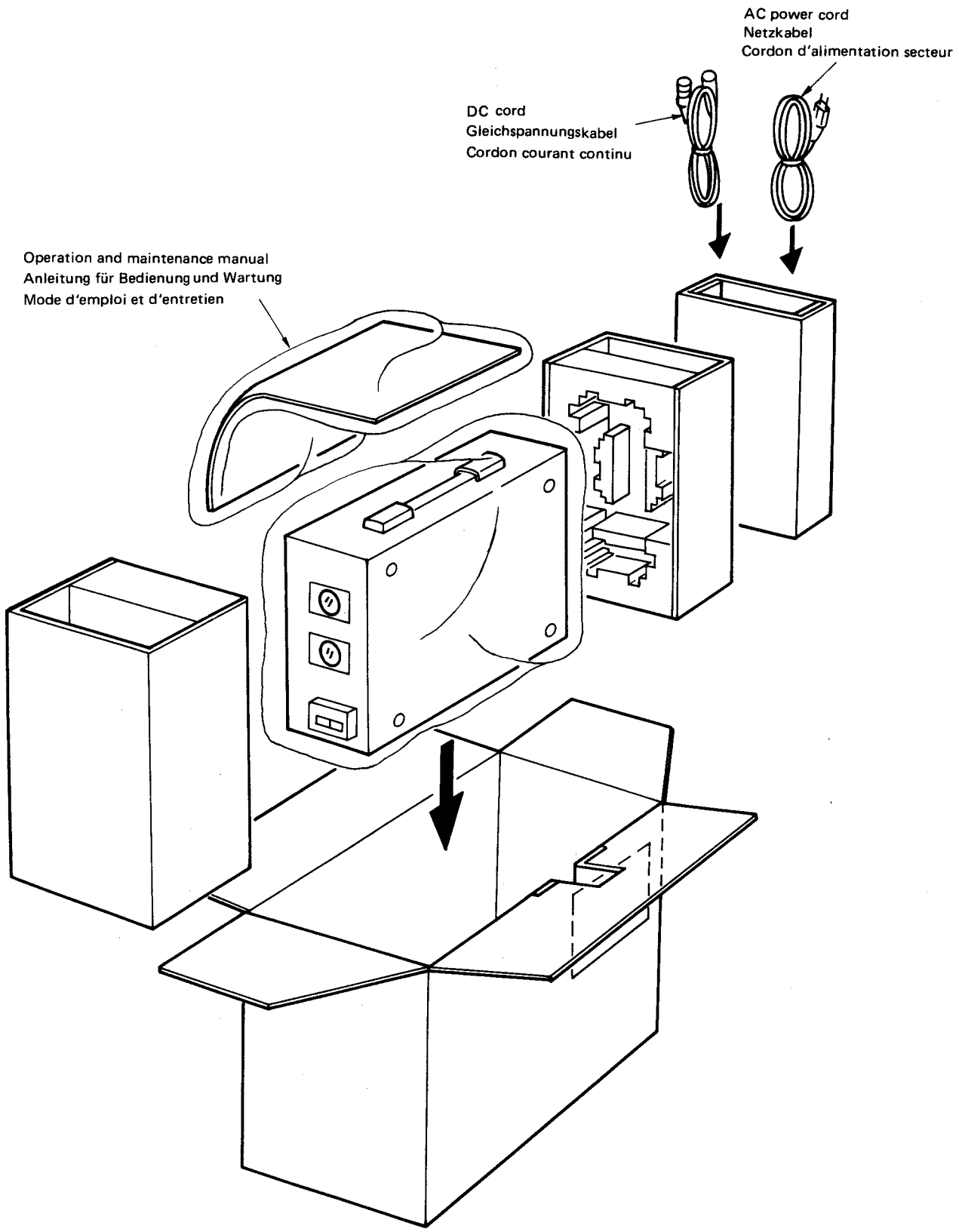
⑤ **Connecteur de sortie vidéo [VIDEO OUT]**
Connecteur BNC – pour câble coaxial
Vidéo complet 1,0 Vc-c

1-4. CONNEXIONS





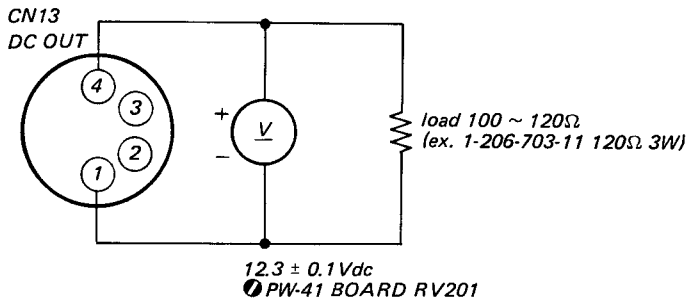
1-5. REPACKING FOR SHIPMENT
WIEDERVERPACKUNG FÜR TRANSPORTZWECKE
REMBALLAGE POUR EXPEDITION



SECTION 2
ADJUSTMENT

OUTPUT VOLTAGE ADJUSTMENT

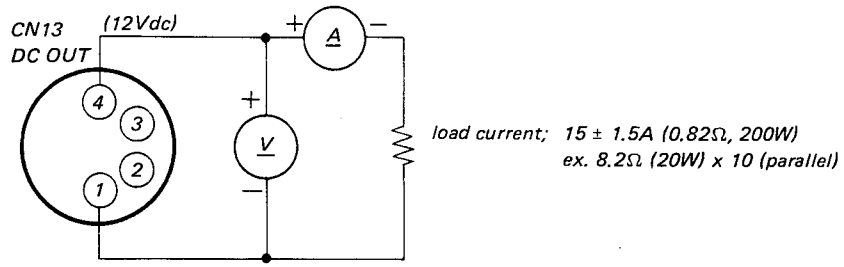
AC-500
AC-500CE



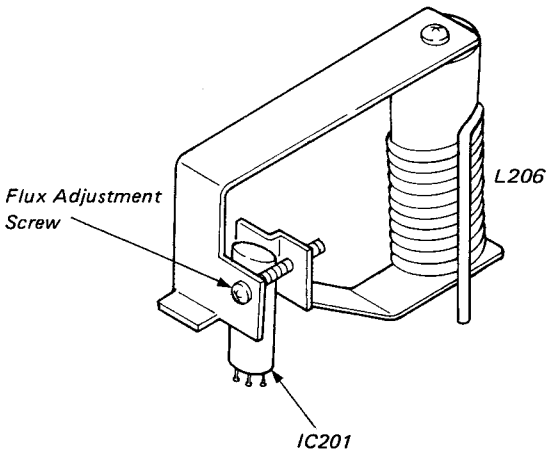
EXCESS CURRENT DETECTOR ADJUSTMENT

When IC201 (hall IC) is replaced, this adjustment should be performed.

AC-500
AC-500CE

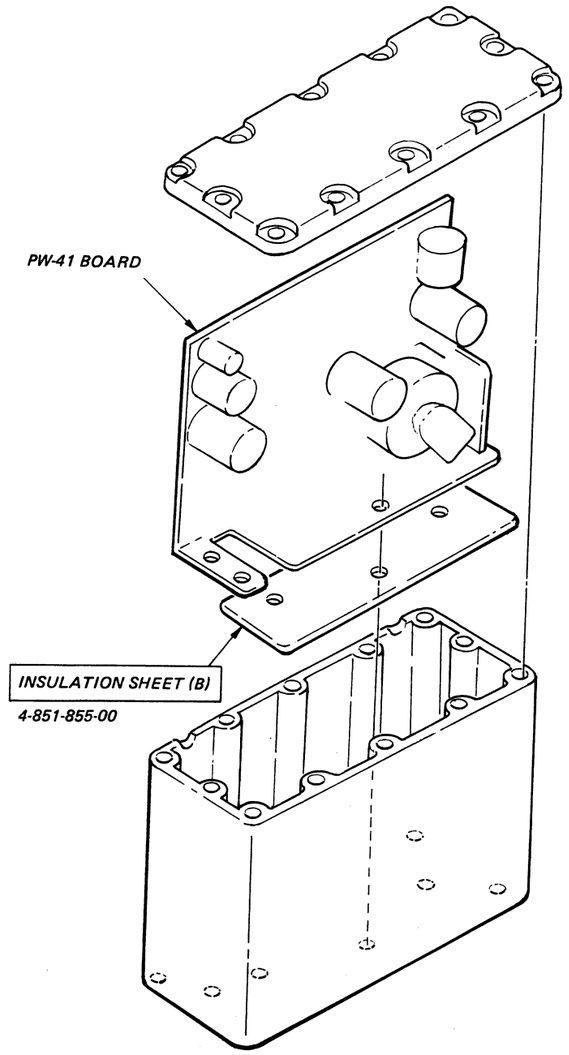


1. Turn the "Flux Adjustment Screw" of the "Excess Current Detecting Coil (L206) on the PW-41 board to counterclockwise (↺), so that the Ammeter reading becomes 15 ± 1.5A.
2. Turn the same screw slowly clockwise (↻) and set it at the point 0 Vdc of Voltmeter reading.
3. Turn OFF the Power and wait for one minute.
4. Turn ON the Power again and confirm the Voltmeter reading still being 0 Vdc.



SECTION 3
DIAGRAMS

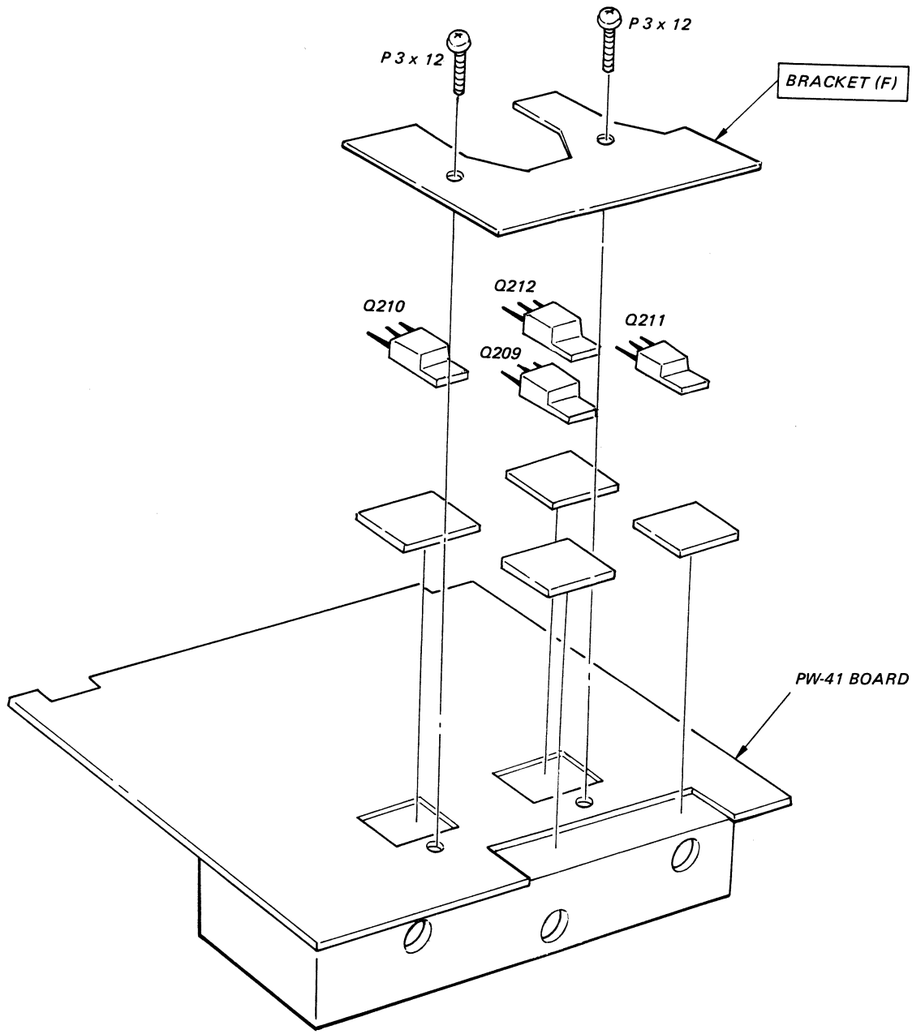
INSULATION SHEET (B)

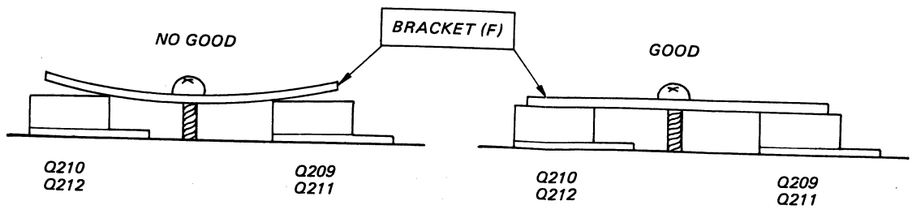


NOTE;

1. *Take care so that the insulation sheet should not tear or get scar.*
2. *Take care so that solder iron drop or lead wire trash should not be left on the insulation sheet.*
3. *If a insulation sheet should be torn, replace a new replacement one.*

BRACKET (F)



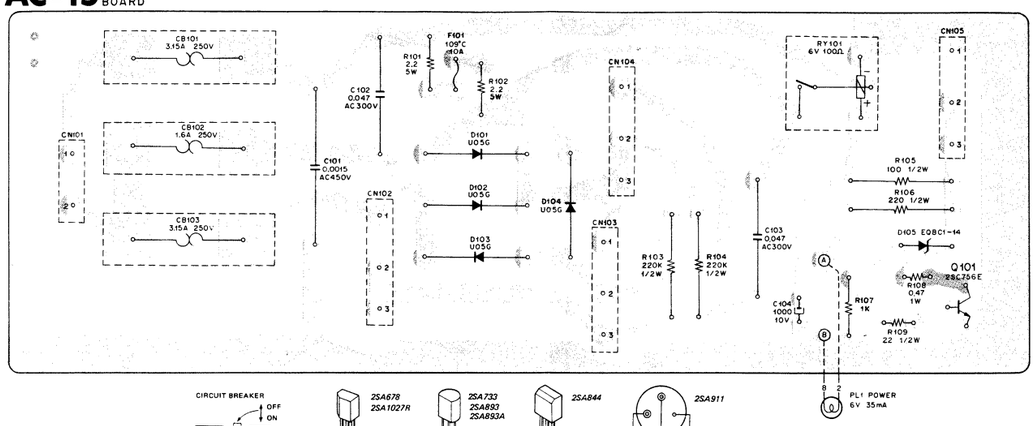


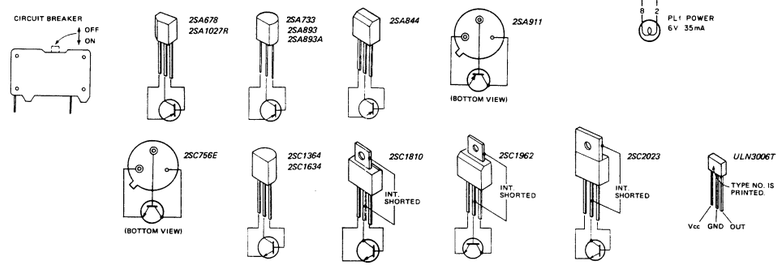
MOUNTED BOARD – *SOLDERING SIDE* –

AC-15 BOARD

Serial No. Up to 20600 (U/C)
Serial No. Up to 15069 (AEP)
Serial No. Up to 11990 (J)

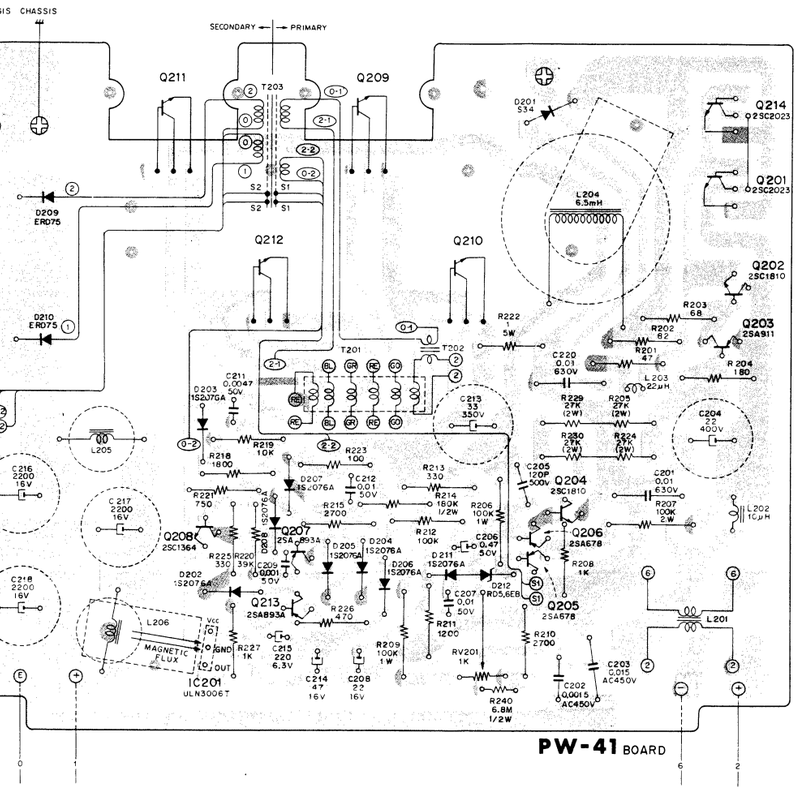
AC-15 BOARD

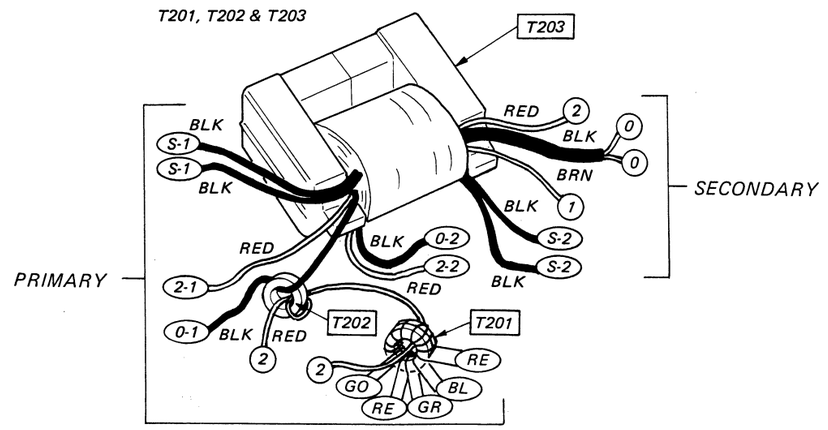




PW-41 BOARD

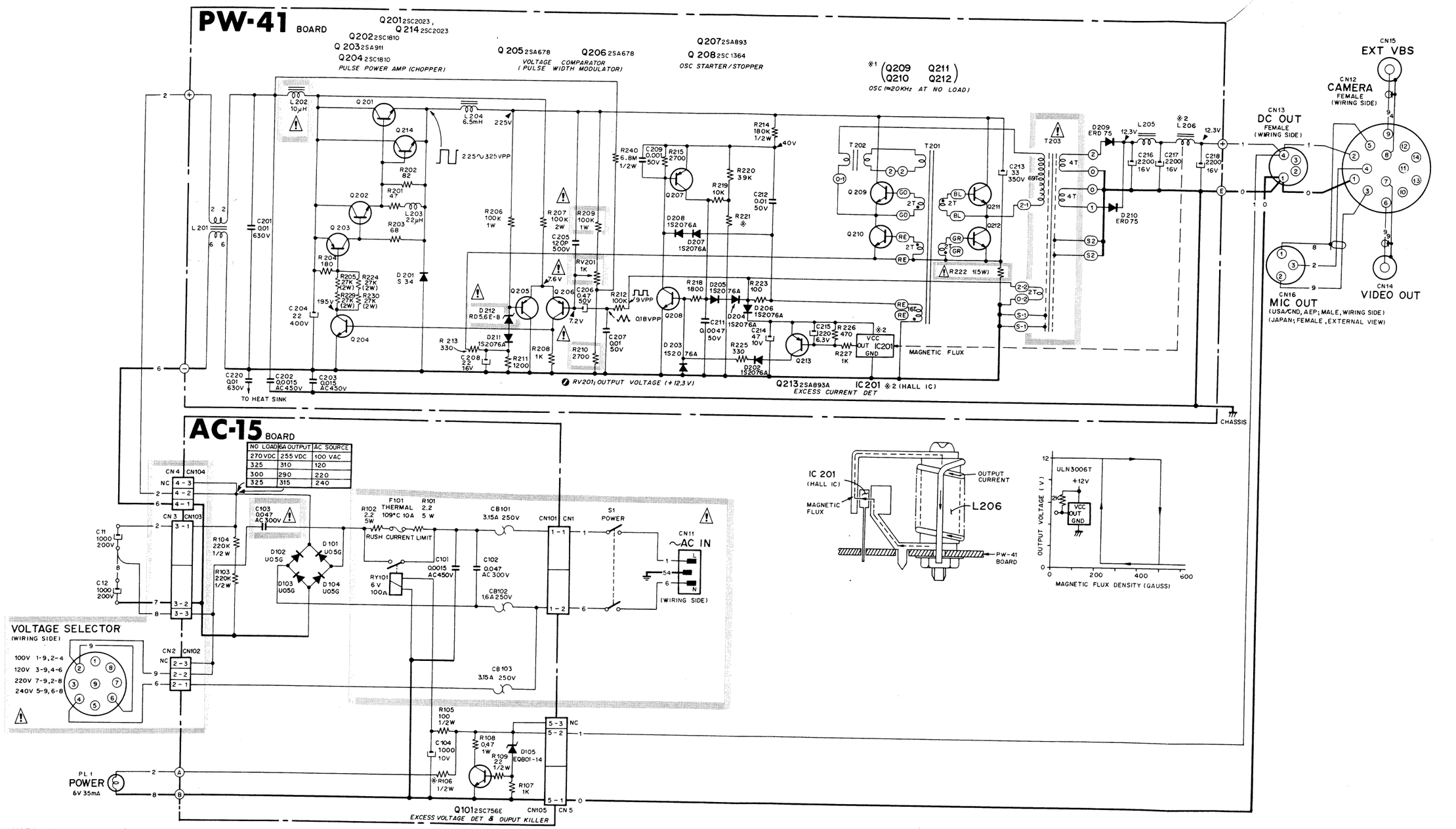
Serial No. Up to 10750 (U/C)
Serial No. Up to 10750 (AEP)
Serial No. Up to 10480 (J)





SCHEMATIC DIAGRAM

Serial No. Up to 10750 (U/C)
Serial No. Up to 10750 (AEP)
Serial No. Up to 10480 (J)



NOTE (1).※:R106 180→220 { S/N. 10751 ~(U/C); S/N. 10481 ~(J); S/N. 10551 ~(AEP) }

(2).※:R221 750→1K S/N. { U/C:10851 ~; J :10481 ~; AEP:10751 ~ }

(3).※1: Q209 ~ Q212 2SC2023 →2SC2542 S/N. { U/C: 12716 ~; J :10781 ~; AEP: 11701 ~ }

TRANSISTOR Q209 ~ Q212 MUST BE CHANGED AS ALL PAIR USE.
EXANPLE: 2SC2023-----A, 2SC2542-----B

Q209	Q210	Q211	Q212	
A	A	A	B	← NG
A	A	B	B	← NG
A	A	A	A	
B	B	B	B	← OK

(4).※2: IC201 ULN3006T → ULN3006T-W
L206 11TURNS → 6TURNS
S/N. { 13416 ~ (U/C); 11081 ~ (J); 12171 ~ (AEP) }

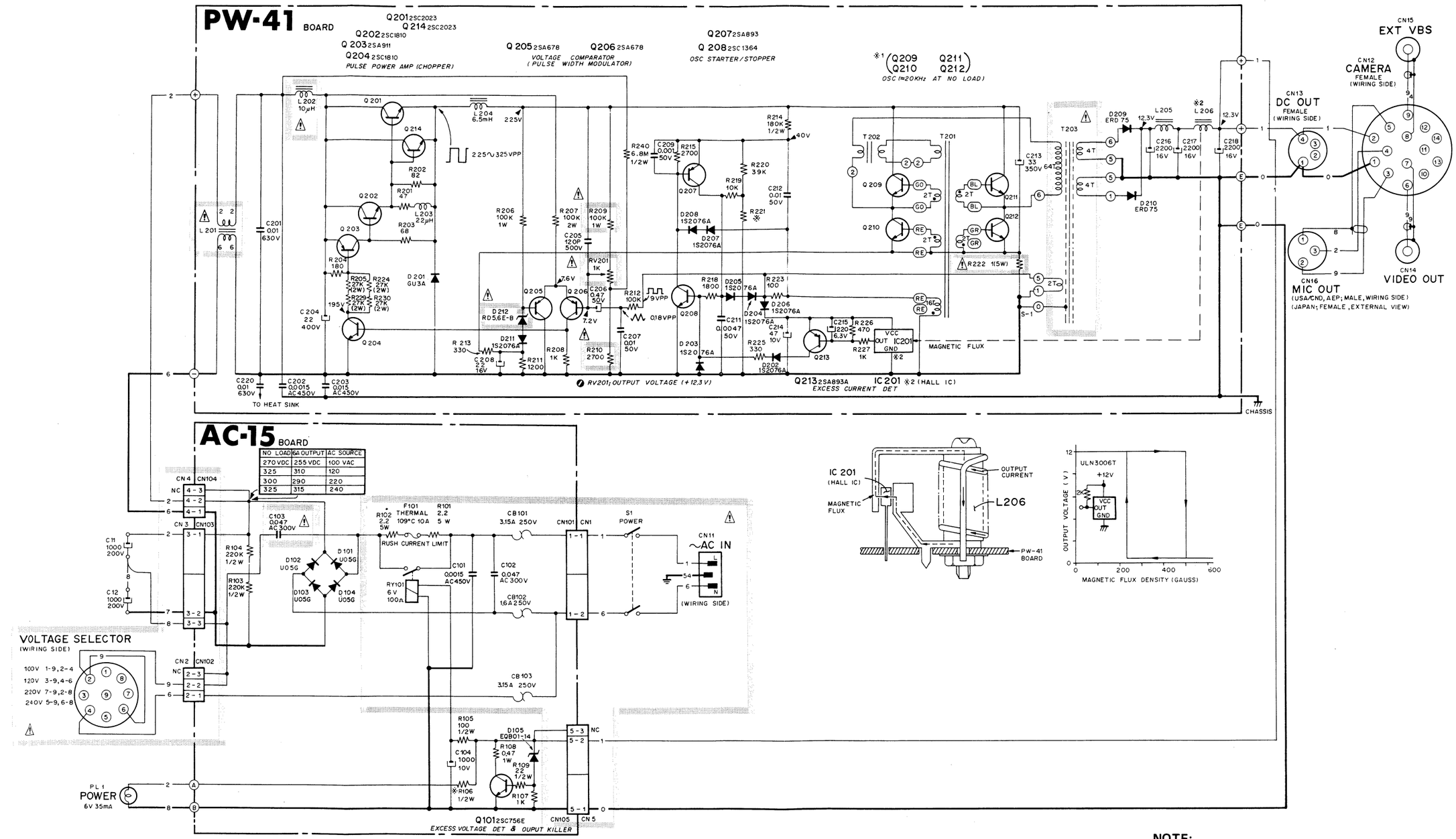
WHEN IC201 IS REPLACED FROM ULN3006T TO ULN3006T-W, THE NUMBER OF TURN ON L206 SHOULD BE DECREASED FROM 11 TO 6 TURNS.

NOTE:

The shaded and ⚠ -marked components are critical to safety.
Replace only with same component as specified.

SCHEMATIC DIAGRAM

Serial No. 10751 Up to 20600 (U/C)
Serial No. 10751 Up to 15069 (AEP)
Serial No. 10481 Up to 11990 (J)



NOTE (1).※:R106 180→220 { S/N. 10751 ~(U/C) / S/N. 10481 ~(J) / S/N. 10551 ~(AEP) }

(2).※:R221 750→1K S/N. { U/C:10851 ~ / J :10481 ~ / AEP:10751 ~ }

(3).※1: Q209 ~ Q212
2SC2023 →2SC2542
S/N. { U/C: 12716 ~ / J :10781 ~ / AEP: 11701 ~ }

TRANSISTOR Q209 ~ Q212 MUST BE CHANGED AS ALL PAIR USE.
EXANPLE: 2SC2023-----A, 2SC2542-----B

Q209	Q210	Q211	Q212	
A	A	A	B	← NG
A	A	B	B	← NG
A	A	A	A	← OK
B	B	B	B	

(4).※2: IC201 ULN3006T → ULN3006T-W
L206 11TURNS → 6TURNS
S/N. { 13416 ~ (U/C) / 11081 ~ (J) / 12171 ~ (AEP) }

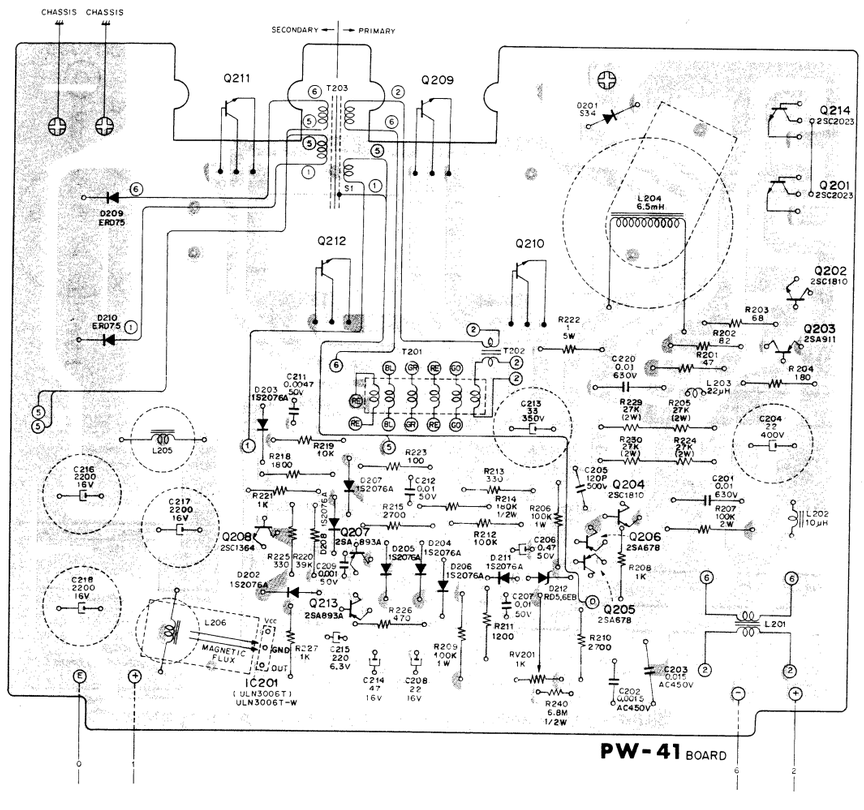
WHEN IC201 IS REPLACED FROM ULN3006T TO ULN3006T-W, THE NUMBER OF TURN ON L206 SHOULD BE DECREASED FROM 11 TO 6 TURNS.

NOTE:

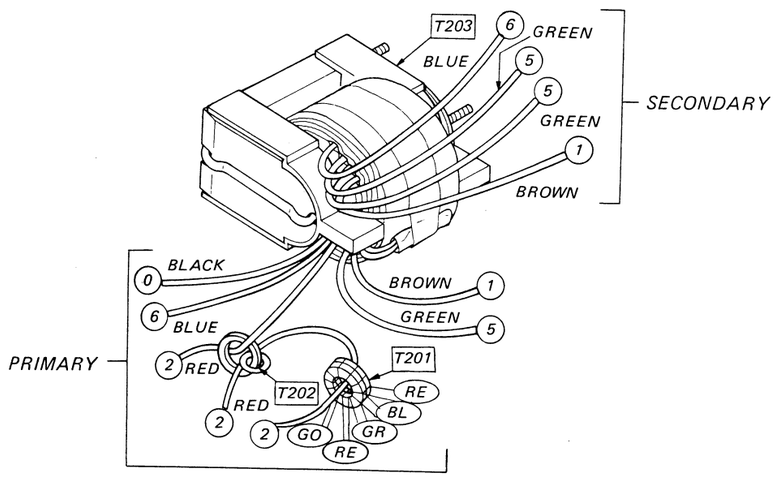
The shaded and ⚠-marked components are critical to safety.
Replace only with same component as specified.

PW-41 BOARD

Serial No. 10751 to 14515 (U/C)
Serial No. 10751 to 13579 (AEP)
Serial No. 10481 to 11340 (J)

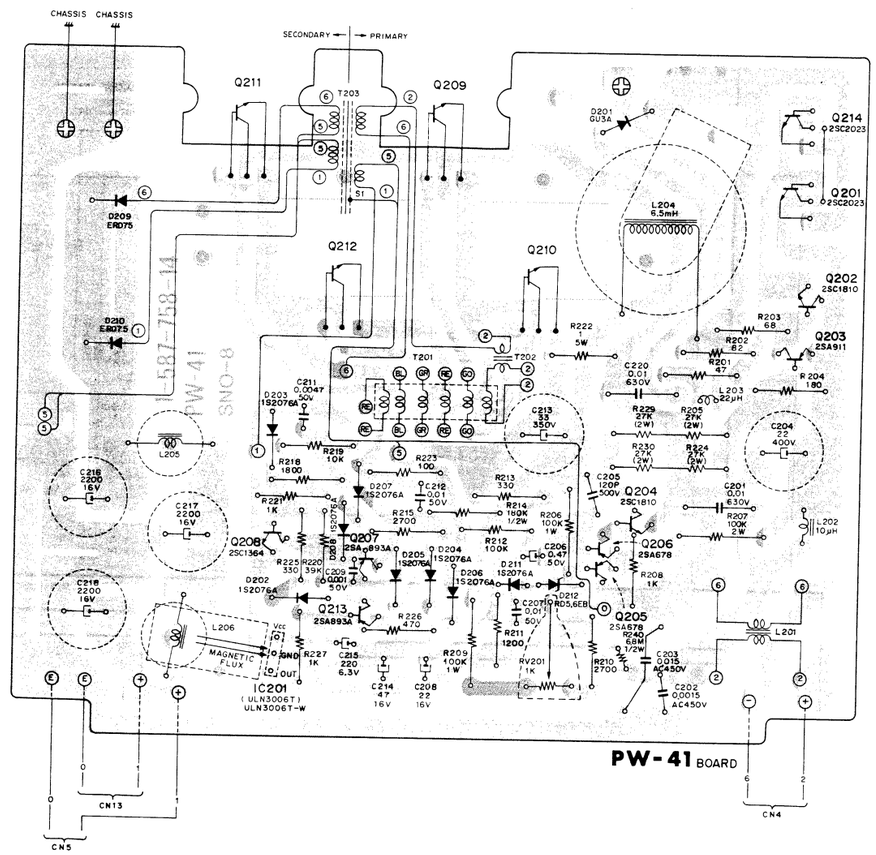


T201, T202 & T203

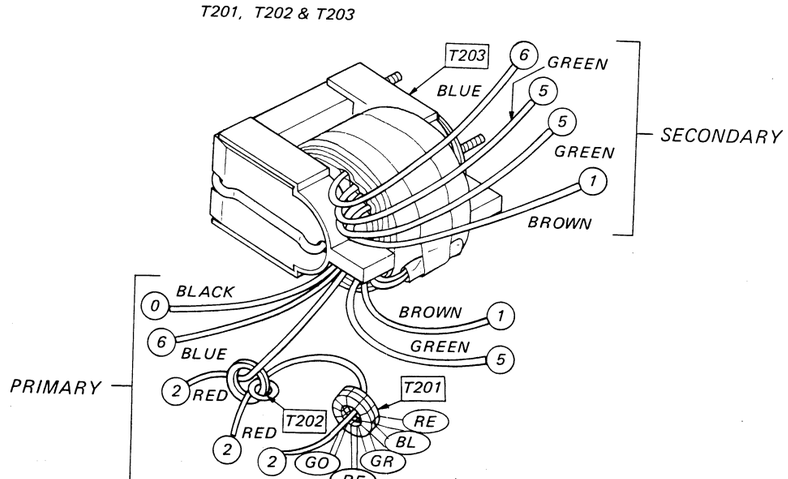


PW-41 BOARD

Serial No. 14516 and higher (U/C)
Serial No. 13580 and higher (AEP)
Serial No. 11341 and higher (J)

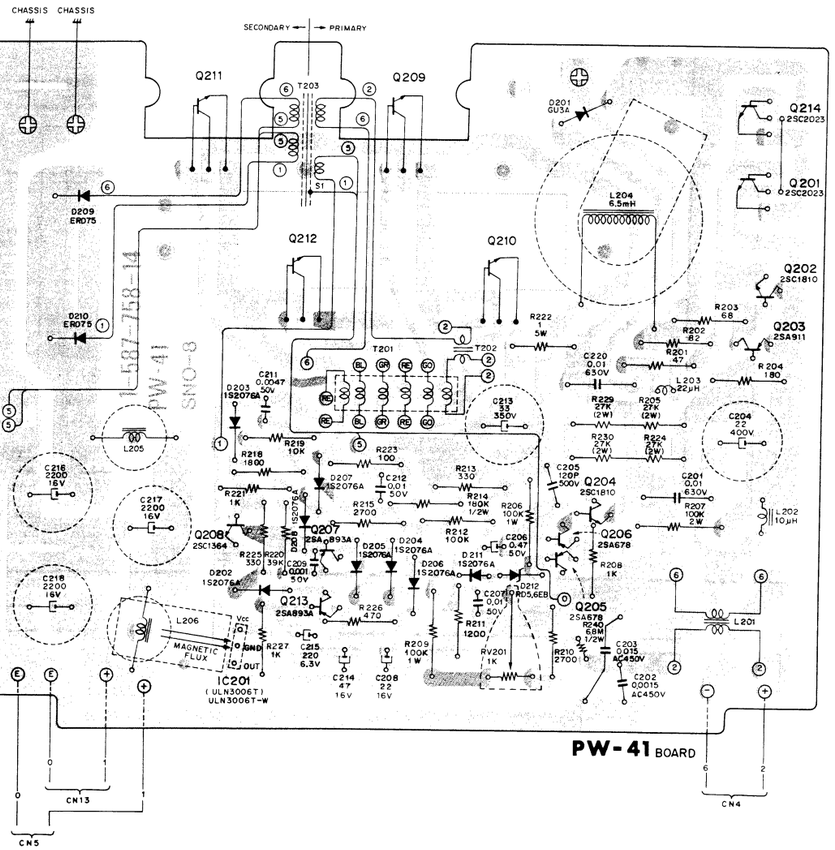


T201, T202 & T203



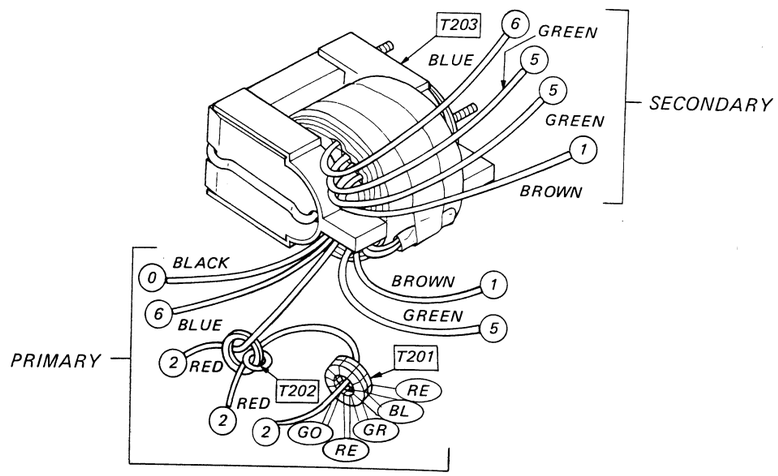
PW-41 BOARD

Serial No. 14516 and higher (U/C)
Serial No. 13580 and higher (AEP)
Serial No. 11341 and higher (J)



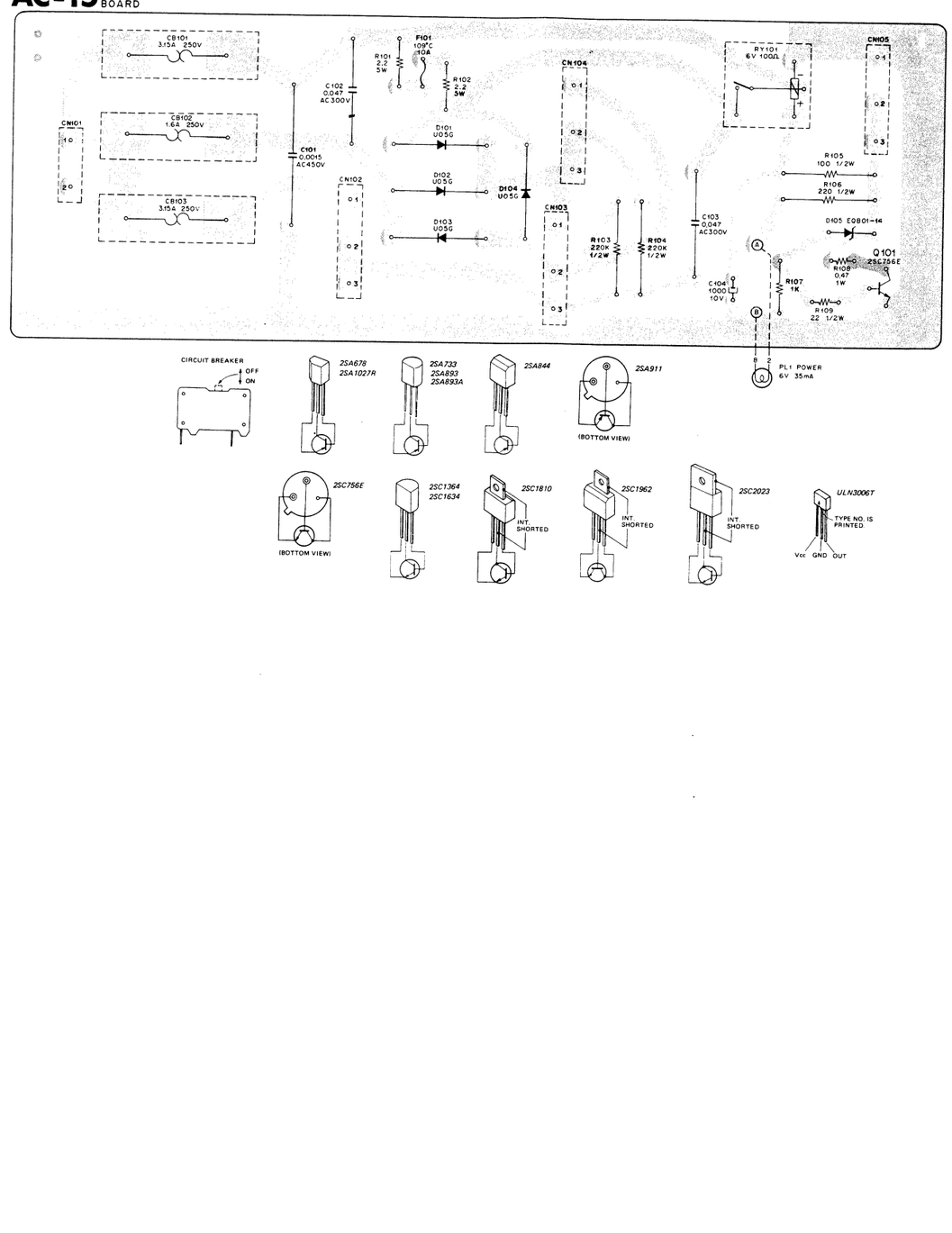
PW-41 BOARD

T201, T202 & T203



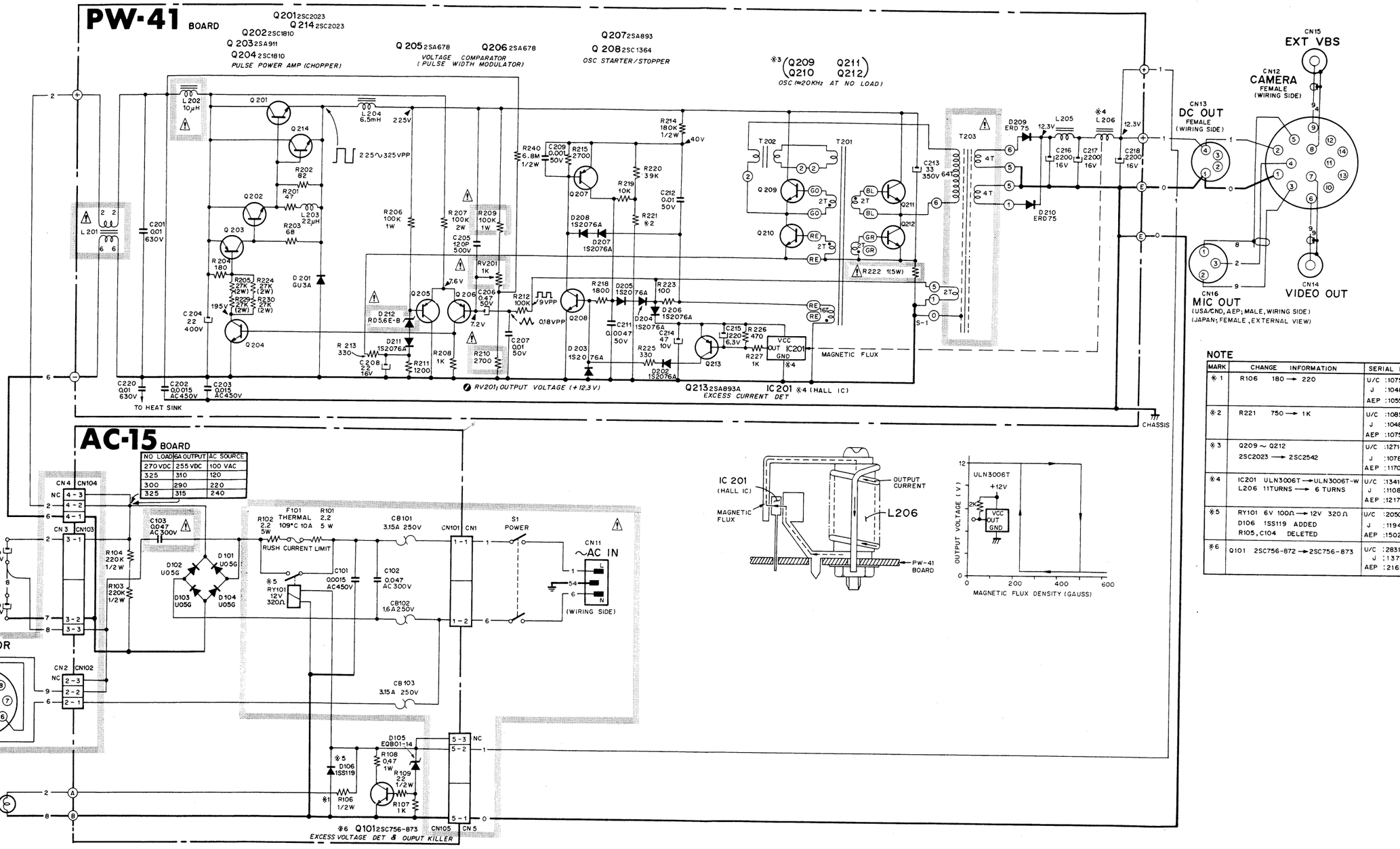
AC-15 BOARD

Serial No. Up to 20600 (U/C)
Serial No. Up to 15069 (AEP)
Serial No. Up to 11990 (J)



SCHEMATIC DIAGRAM

Serial No. 20601 to 29395 (U/C)
Serial No. 15070 to 22849 (AEP)
Serial No. 11991 to 14090 (J)



NOTE

MARK	CHANGE	INFORMATION	SERIAL NO.
※1	R106	180 → 220	U/C :10751∼ J :10481∼ AEP :10551∼
※2	R221	750 → 1K	U/C :10851∼ J :10481∼ AEP :10751∼
※3	Q209 ∼ Q212 2SC2023 → 2SC2542		U/C :12716∼ J :10781∼ AEP :11701∼
※4	IC201 ULN3006T → ULN3006T-W L206 11TURNS → 6 TURNS		U/C :13416∼ J :11081∼ AEP :12171∼
※5	RY101 6V 100Ω → 12V 320Ω D106 1SS119 ADDED R105, C104 DELETED		U/C :20501∼ J :11941∼ AEP :15020∼
※6	Q101 2SC756-872 → 2SC756-873		U/C :28316∼ J :13751∼ AEP :21650∼

TRANSISTOR Q209 ∼ Q212 MUST BE CHANGED AS ALL PAIR USE.
EXANPLE: 2SC2023-----A, 2SC2542-----B

Q209	Q210	Q211	Q212	
A	A	A	B	← NG
A	A	B	B	← NG
A	A	A	A	← OK
B	B	B	B	← OK

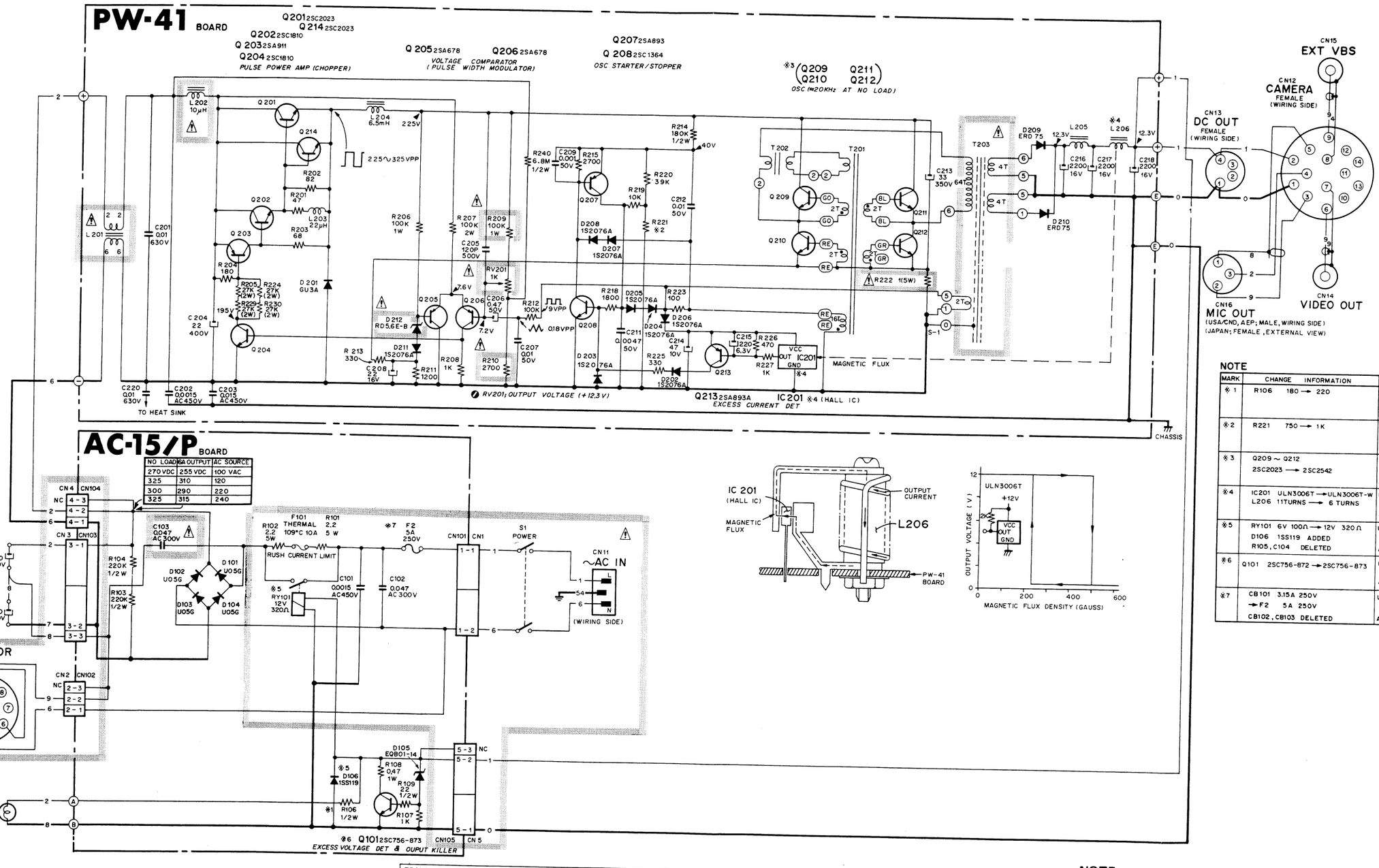
WHEN IC201 IS REPLACED FROM ULN3006T TO ULN3006T-W, THE NUMBER OF TURN ON L206 SHOULD BE DECREASED FROM 11 TO 6 TURNS.

NOTE:

The shaded and ⚠-marked components are critical to safety.
Replace only with same component as specified.

SCHEMATIC DIAGRAM

Serial No. 29396 and higher (U/C)
Serial No. 22850 and higher (AEP)
Serial No. 14091 and higher (J)



NOTE

MARK	CHANGE	INFORMATION	SERIAL NO.
※1	R106	180 → 220	U/C :10751~ J :10481~ AEP :10551~
※2	R221	750 → 1K	U/C :10851~ J :10481~ AEP :10751~
※3	Q209 ~ Q212 2SC2023 → 2SC2542		U/C :12716~ J :10781~ AEP :11701~
※4	IC201 ULN3006T → ULN3006T-W L206 11TURNS → 6 TURNS		U/C :13416~ J :11081~ AEP :12171~
※5	RY101 6V 100Ω → 12V 320Ω D106 1SS119 ADDED R105, C104 DELETED		U/C :20501~ J :11941~ AEP :15020~
※6	Q101 2SC756-872 → 2SC756-873		U/C :28316~ J :13751~ AEP :21650~
※7	CB101 3.15A 250V → F2 5A 250V CB102, CB103 DELETED		U/C :29396~ J :14091~ AEP :22850~

TRANSISTOR Q209 ~ Q212 MUST BE CHANGED AS ALL PAIR USE.
EXANPLE: 2SC2023-----A, 2SC2542-----B

Q209	Q210	Q211	Q212	
A	A	A	B	← NG
A	A	B	B	← NG
A	A	A	A	← OK
B	B	B	B	

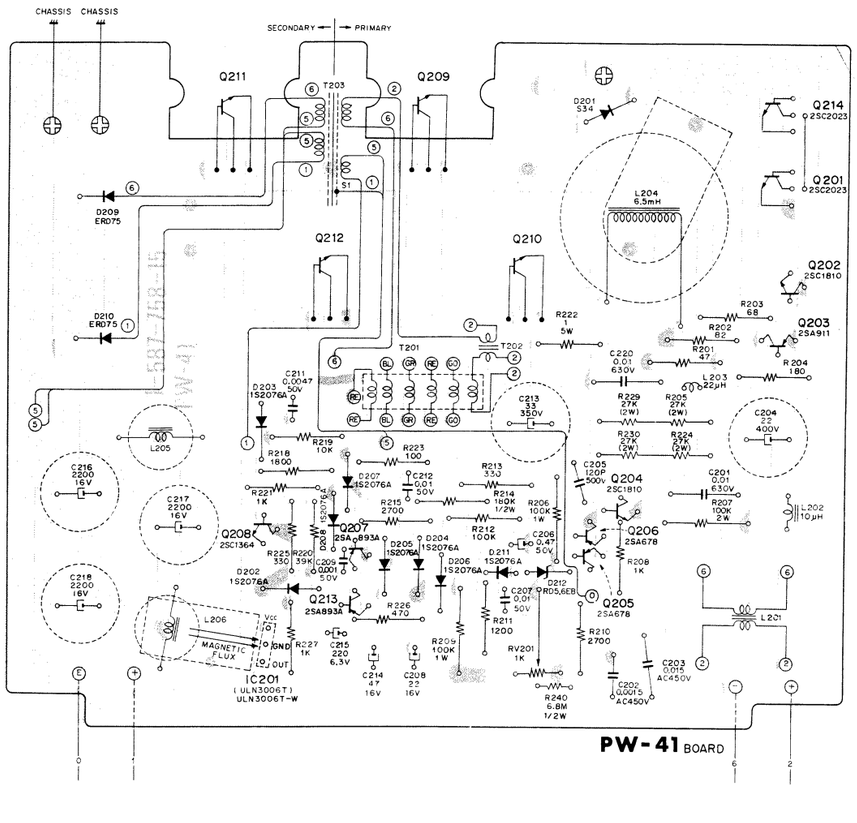
WHEN IC201 IS REPLACED FROM ULN3006T TO ULN3006T-W, THE NUMBER OF TURN ON L206 SHOULD BE DECREASED FROM 11 TO 6 TURNS.

NOTE:

The shaded and ⚠-marked components are critical to safety.
Replace only with same component as specified.

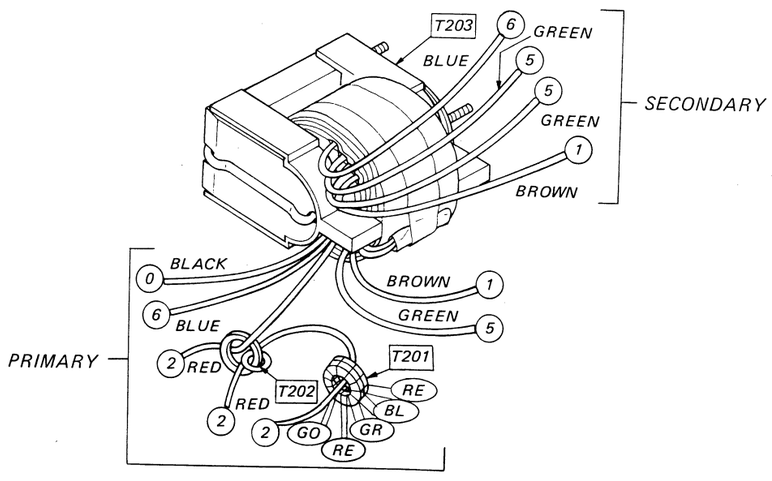
PW-41 BOARD

Serial No. 14516 and higher (U/C)
Serial No. 13580 and higher (AEP)
Serial No. 11341 and higher (J)



PW-41 BOARD

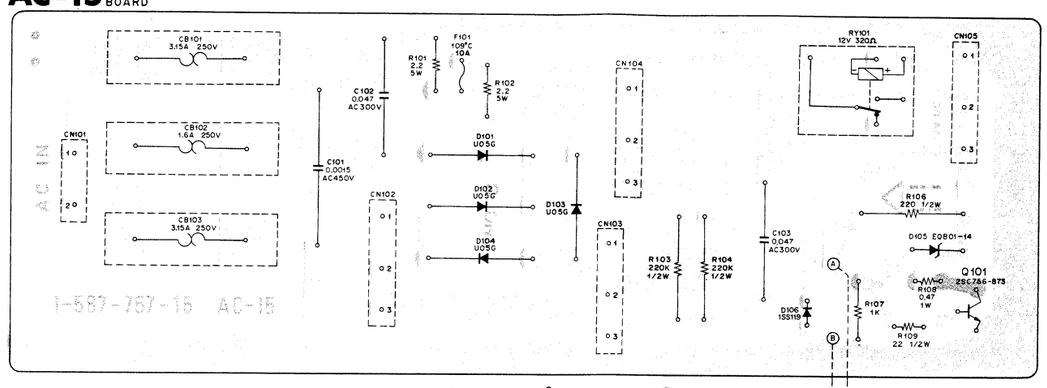
T201, T202 & T203



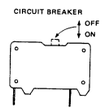
AC-15 BOARD

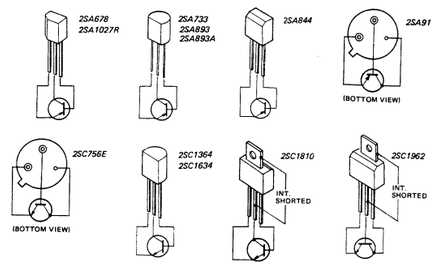
Serial No. Up to 29395 (U/C)
Serial No. Up to 22849 (AEP)
Serial No. Up to 14090 (J)

AC-15 BOARD



CIRCUIT BREAKER

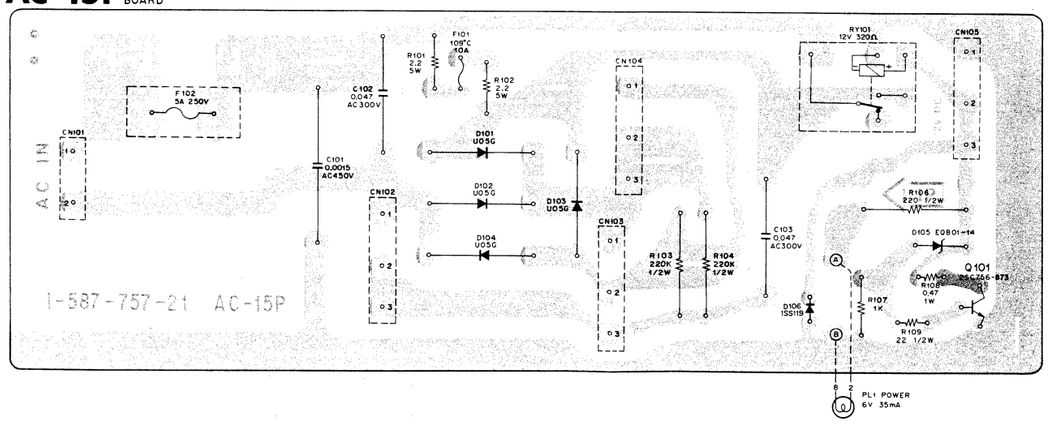




AC-15P BOARD

Serial No. 22850 and higher (AEP)

AC-15P BOARD



SECTION 4
SPARE PARTS AND FIXTURE

4-1. PARTS INFORMATION

1. **Safety Related Component Warning**

   Components identified by shading on the schematic diagrams, exploded views and electrical spare parts list are critical to safe operation. Replace these components with Sony parts whose part numbers appear as shown in this manual or in service bulletins and service manual supplements published by Sony.

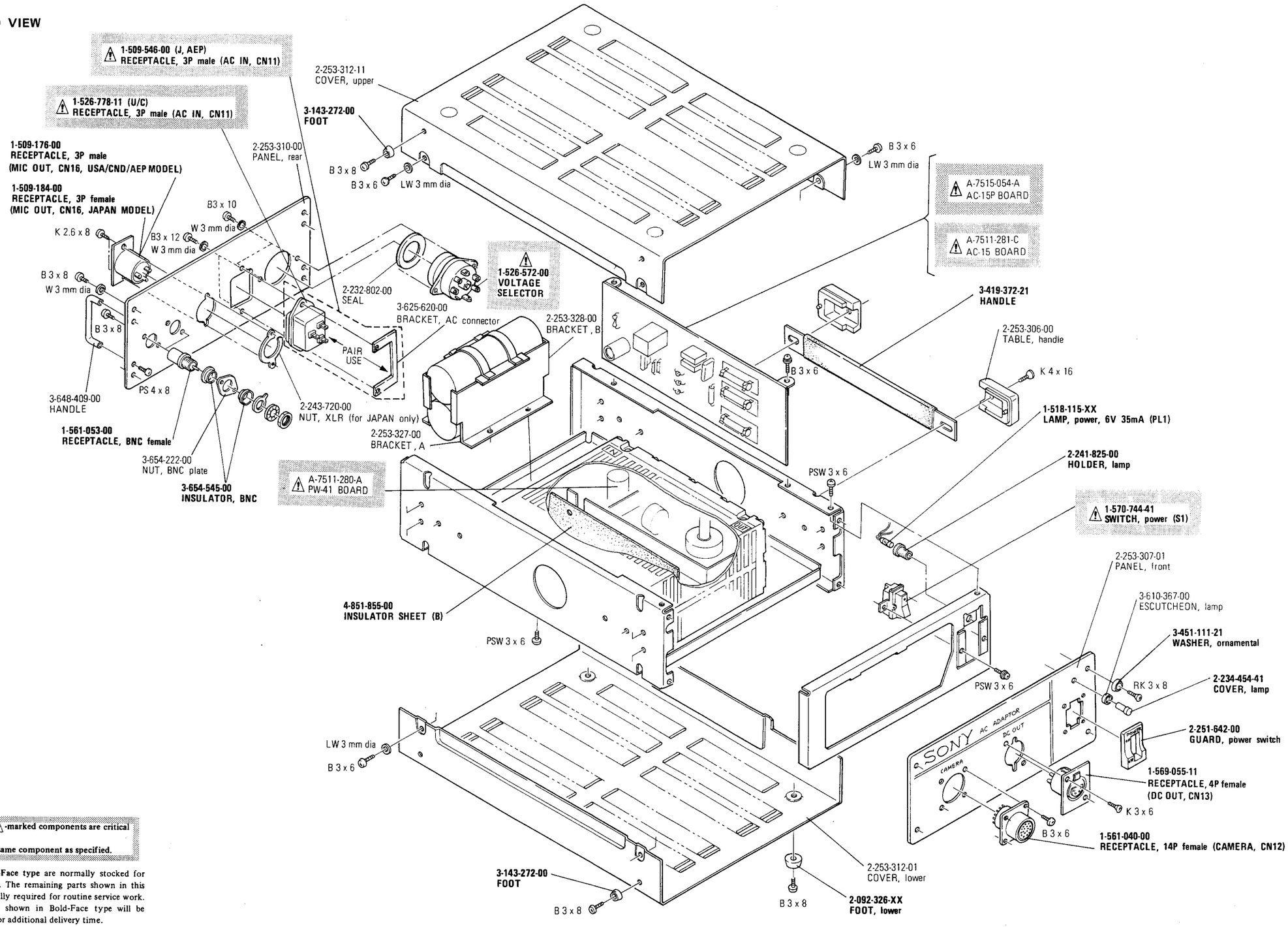
2. Replace Parts that are supplied from Sony Parts Center can sometimes have different shape and external appearance than what are actually used in equipment. This is due to **"accomodating the improved parts and/or engineering changes"** or **"standardization of genuine parts"**.

   - This manual's exploded views and electrical spare parts list are indicating the parts numbers of "the standardized genuine parts at present".
   - Regarding engineering parts changes in our engineering department, refer Sony service bulletins and service manual supplements.

3. **Printed Components in Bold-Face type** on the exploded views and electrical spare parts list are normally stocked for replacement purposes. The remaining parts are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.

4. Item with no part number and/or no description are not stocked because they are seldom required for routine service.

4-2. EXPLODED VIEW



NOTE:

1. **The shaded and ⚠-marked components are critical to safety.**
   Replace only with same component as specified.
2. Parts printed in **Bold-Face type** are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.
3. Item with no part number and/or no description are not stocked because they are seldom required for routine service.

4-3. ELECTRICAL PARTS LIST

Ref. No.	Parts No.	Description
MOUNTED BOARD		
⚠	A-7511-280-A	PW-41 BOARD
⚠	A-7511-281-A	AC-15 BOARD
		(S/N. ~ 20600(U/C) S/N. ~ 11990(J) S/N. ~ 15069(AEP))
⚠	A-7511-281-B	AC-15 BOARD
		(S/N. 20601 ~ 29395(U/C) S/N. 11991 ~ 14090(J) S/N. 15070 ~ 22849(AEP))
⚠	A-7511-281-C	AC-15 BOARD
		(S/N. 29396 ~ (U/C) S/N. 14091 ~ (J))
⚠	A-7515-054-A	AC-15P BOARD
		S/N. 22850 ~ (AEP)
CAPACITOR		
FRAME		
C11	1-125-179-11	elect 1000μF 200V
C12	1-125-179-11	elect 1000μF 200V
AC-15/P BOARD		
⚠ C101	1-115-149-00	paper 0.0015μF 20% AC 450
⚠ C102	1-136-344-11	metalized film 0.047μF 20% AC 300
⚠ C103	1-136-344-11	metalized film 0.047μF 20% AC 300
C104	1-123-311-11	elect 1000μF 10V
		(S/N. ~ 20600(U/C) S/N. ~ 11990(J) S/N. ~ 15069(AEP))

NOTE:

1. The shaded and ⚠-marked components are critical to safety.
   Replace only with same component as specified.
2. Parts printed in **Bold-Face type** are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.

Ref. No.	Parts No.	Description
PW-41 BOARD		
C201	1-130-141-11	polyestel 0.01μF 20% 630V
C202	1-115-149-11	paper 0.0015μF 20% AC 450V
C203	1-115-149-11	paper 0.0015μF 20% AC 450V
C204	1-123-402-11	elect 22μF 400V
C205	1-161-488-11	ceramic 120pF 20% 500V
C206	1-123-379-11	elect 0.47μF 100V
C207	1-108-239-12	mylar 0.01μF 10% 50V
C208	1-123-330-11	elect 22μF 25V
C209	1-108-227-12	mylar 0.001μF 10% 50V
C211	1-108-234-12	mylar 0.0047μF 10% 50V
C212	1-108-239-12	mylar 0.01μF 10% 50V
C213	1-123-280-11	elect 33μF 350V
C214	1-123-332-11	elect 47μF 25V
C215	1-123-308-11	elect 220μF 6.3V
C216	1-123-325-11	elect 2200μF 16V
C217	1-123-325-11	elect 2200μF 16V
C218	1-123-325-11	elect 2200μF 16V
C220	1-130-141-11	polyestel 0.01μF 20% 630V
CIRCUIT BREAKER		
AC-15/P BOARD		
⚠ CB101	1-532-543-00	3.15A 250V
		(S/N. up to 29395(U/C) S/N. up to 14090(J) S/N. up to 22849(AEP))
⚠ CB102	1-532-534-00	1.6A 250V
		(S/N. up to 29395(U/C) S/N. up to 14090(J) S/N. up to 22849(AEP))
⚠ CB103	1-532-543-00	3.15A 250V
		(S/N. up to 29395(U/C) S/N. up to 14090(J) S/N. up to 22849(AEP))
⚠ CB101	DELETE	
⚠ CB102	DELETE	(S/N. 29396 ~ (U/C) S/N. 14091 ~ (J) S/N. 22850 ~ (AEP))
⚠ CB103	DELETE	

Ref. No.	Parts No.	Description

CONNECTOR

FRAME

⚠CN1	1-509-910-00 1-509-898-11	plug, housing, 2P, female contact pin, female
⚠CN2	1-509-896-00 1-509-898-11	plug, housing, 3P, female contact pin, female
⚠CN3	1-509-896-00 1-509-898-11	plug, housing, 3P, female contact pin, female
⚠CN4	1-509-896-00 1-509-898-11	plug, housing, 3P, female contact pin, female
⚠CN5	1-509-896-00 1-509-898-11	plug, housing, 3P, female contact pin, female
⚠CN11	1-526-778-11	receptacle, 3P, male; AC IN] PAIR USE
	3-625-620-00	bracket, AC connector] PAIR USE
CN12	**1-561-040-00**	**receptacle, 14P, female; CAMERA**
CN13	**1-569-055-11**	**receptacle, 4P, female; DC OUT**
CN14	**1-561-053-00**	**receptacle, BNC, female; VIDEO OUT**
CN15	**1-561-053-00**	**receptacle, BNC, female; EXT VBS**
CN16		
USA/CND/AEP		
	1-509-176-00	**receptacle, 3P, male; MIC OUT**
JAPAN	**1-509-184-00**	**receptacle, 3P, female; MIC OUT**

Ref. No.	Parts No.	Description

AC-15/P BAORD

⚠CN101	1-506-371-00	receptacle, 2P, male
⚠CN102	1-506-348-XX	receptacle, 6P, male
⚠CN103	1-506-348-XX	receptacle, 6P, male
⚠CN104	1-506-348-XX	receptacle, 6P, male
⚠CN105	1-506-348-XX	receptacle, 6P, male

Since the connector, specified and to be supplied for the repair the 1-506-348-XX has 6 pins, break off the unnecessary pins before use.

DIODE

AC-15/P BOARD

D101	**8-719-911-55**	**UO5G**
D102	**8-719-911-55**	**UO5G**
D103	**8-719-911-55**	**UO5G**
D104	**8-719-911-55**	**UO5G**
D105	**8-719-933-14**	**EQB01-14**
D106	**8-719-811-48**	**1SS148** (S/N. 20601 ~ (U/C) / S/N. 11991 ~ (J) / S/N. 15070 ~ (AEP))

NOTE:

1. **The shaded and ⚠-marked components are critical to safety.**
   Replace only with same components as specified.
2. Parts printed in **Bold-Face type** are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.

Ref. No.	Parts No.	Description
PW-41 BOARD		
D201	8-719-303-41	GU3A
D202	8-719-923-76	1S2076A
D203	8-719-923-76	1S2076A
D204	8-719-923-76	1S2076A
D205	8-719-923-76	1S2076A
D206	8-719-923-76	1S2076A
D207	8-719-923-76	1S2076A
D208	8-719-923-76	1S2076A
D209	8-719-907-52	ERD75
D210	8-719-907-52	ERD75
D211	8-719-923-76	1S2076A
⚠D212	8-719-100-35	RD5.6E-B

FUSE

AC-15 BOARD

⚠F101	1-532-496-00	thermal 109°C, 10A
⚠F102	1-532-850-11	time-lag (S/N. 29396 ~ (U/C), S/N. 14091 ~ (J))

AC-15P BOARD

⚠F102	1-532-299-00	time-lag S/N. 22850 ~ (AEP)

NOTE:

1. **The shaded and ⚠-marked components are critical to safety. Replace only with same component as specified.**
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Ref. No.	Parts No.	Description
PW-41 BOARD		
IC201	8-759-330-06	ULN3006T, hall IC (SPRAGUE) (S/N. ~ 13415 (U/C), S/N. ~ 11080 (J), S/N. ~ 12170 (AEP))
IC201	8-759-300-08	ULN3006T-W, hall IC (SPRAGUE) (S/N. 13416 ~ (U/C), S/N. 11081 ~ (J), S/N. 12171 ~ (AEP))

Note; When IC201 is replaced from ULN3006T to ULN3006T-W, the number of turn on L206 should be decreased from 11 to 6 turn.

INDUCTOR

PW-41 BOARD

⚠L201	1-421-349-00	line filter	
⚠L202	1-421-329-00	coil,	10μH
L203	1-407-161-XX	micro,	22μH
L204	1-421-348-00	choke,	6.5mH
L205	1-421-329-00	coil,	10μH
	1-543-136-00	core, ferrite	
L206	1-543-136-00	core, ferrite	

LAMP

FRAME

PL1	1-518-331-81	6V	35mA

Ref. No.	Parts No.	Description

TRANSISTOR

AC-15/P BOARD

Q101	8-769-407-53	2SC756-873

PW-41 BOARD

Q201	**8-729-302-32**	**2SC2023**
Q202	**8-763-623-00**	**2SC1810**
Q203	**8-765-141-00**	**2SA911**
Q204	**8-763-623-00**	**2SC1810**
Q205	**8-727-788-00**	**2SA678 (2SA1027R)**
Q206	**8-727-788-00**	**2SA678 (2SA1027R)**
Q207	**8-729-389-37**	**2SA893A**
Q208	**8-729-663-47**	**2SC1364**
Q209	**8-729-302-32**	**2SC2023**
Q210	**8-729-302-32**	**2SC2023**
Q211	**8-729-302-32**	**2SC2023**
Q212	**8-729-302-32**	**2SC2023** (S/N ~ 12715 (U/C), S/N ~ 10780 (J), S/N ~ 11700 (AEP))

⇩

Q209	**8-729-954-21**	**2SC2542**
Q210	**8-729-954-21**	**2SC2542**
Q211	**8-729-954-21**	**2SC2542**
Q212	**8-729-954-21**	**2SC2542** (S/N 12716 ~ (U/C), S/N 10781 ~ (J), S/N 11701 ~ (AEP))

SEE PAGE 3-8 AS DETAIL

NOTE:

1. **The shaded and ⚠-marked components are critical to safety.**
   Replace only with same component as specified.
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Ref. No.	Parts No.	Description			

RESISTOR

All resistors are in ohms.

AC-15/P BOARD

⚠R101	**1-217-570-00**	**metal**	**2.2**	**10%**	**5W**
⚠R102	**1-217-570-00**	**metal**	**2.2**	**10%**	**5W**
R103	**1-214-921-00**	carbon	220K	5%	½W
R104	**1-214-921-00**	barbon	220K	5%	½W
R105	**1-244-849-11**	carbon	100	5%	½W
		(S/N. ~ 20600(U/C), S/N. ~ 11990(J), S/N. ~ 15069(AEP))			
R106	1-244-855-11	carbon	180	5%	½W
		(S/N ~ 10750 (U/C), S/N ~ 10480 (J), S/N ~ 10550 (AEP))			
R106	1-247-745-11	carbon	220	5%	½W
		(S/N 10751 ~ (U/C), S/N 10481 ~ (J), S/N 10551 ~ (AEP))			
R107	1-246-473-15	carbon	1k	5%	¼W
R108	1-216-345-11	metal	0.47	5%	1W
R109	1-247-731-11	carbon	22	5%	½W

PW-41 BOARD

R201	1-247-099-00	carbon nonflammable	47	5%	¼W
R202	1-247-105-00	carbon nonflammable	82	5%	¼W
R203	1-247-103-00	carbon nonflammable	68	5%	¼W
R204	1-247-113-00	carbon nonflammable	180	5%	¼W
R205	1-206-698-00	metal	27k	5%	2W
R206	1-214-595-11	metal	100k	10%	1W
R207	1-214-597-11	metal	100k	10%	2W
R208	1-246-473-15	carbon	1k	5%	¼W
⚠R209	**1-215-904-11**	metal	100k	10%	1W
⚠R210	**1-247-718-11**	carbon nonflammable	2.7k	5%	¼W
R211	1-247-133-00	carbon nonflammable	1.2k	5%	¼W
R212	1-246-521-15	carbon	100k	5%	¼W
R213	1-247-119-00	carbon nonflammable	330	5%	¼W
R214	1-244-927-11	carbon	180k	5%	½W
R215	1-247-141-00	carbon nonflammable	2.7k	5%	¼W

Ref. No.	Parts No.	Description			
R218	1-246-479-15	carbon	1.8k	5%	¼W
R219	1-246-497-15	carbon	10k	5%	¼W
R220	1-246-511-15	carbon	39k	5%	¼W
R221	1-246-470-15	carbon	750	5%	¼W
⚠R222	1-217-160-00	metal	1	10%	5W
R223	1-246-449-15	carbon	100	5%	¼W
R224	1-206-698-00	metal	27K	5%	2W
R225	1-247-119-00	carbon nonflammable	330	5%	¼W
R226	1-246-465-15	carbon	470	5%	¼W
R227	1-246-473-15	carbon	1k	5%	¼W
R229	1-206-698-00	metal	27K	5%	2W
R230	1-206-698-00	metal	27K	5%	2W
R240	1-202-729-00	solid	6.8M	10%	½W
⚠RV201	1-224-642-XX	Var. carbon 1k(B)			

RELAY

AC-15/P BOARD

⚠RY101	1-515-313-00	6V	100Ω
⚠RY101	1-515-552-11	12V	320Ω

(S/N. ~ 20600(U/C), S/N. ~ 11990(J), S/N. ~ 15069(AEP))

(S/N. 20601 ~ (U/C), S/N. 11991 ~ (J), S/N. 15070 ~ (AEP))

SWITCH

FRAME

⚠S1	1-570-744-11	seesaw; POWER

NOTE:

1. The shaded and ⚠-marked components are critical to safety.
   Replace only with same component as specified.
2. Parts printed in **Bold-Face type** are normally stocked for replacement purposes. The remaining parts shown in this manual are not normally required for routine service work. Orders for parts not shown in Bold-Face type will be processed, but allow for additional delivery time.

Ref. No.	Parts No.	Description

TRANSFORMER

PW-41 BOARD

T201	1-543-393-11	core, ferrite
T202	1-543-121-00	core, ferrite
⚠T203	1-446-154-12	converter

MISCELLANEOUS

FRAME

⚠1-526-572-00		voltage selector

AC-15 BOARD

2pcs	1-517-072-00	lamp holder S/N. 29396 ~ (U/C) S/N. 14091 ~ (J)

AC-15P BOARD

2pcs	1-533-037-XX	lamp holder S/N. 22850 ~ (AEP)

4-4. PACKING MATERIAL AND ACCESSORY (SUPPLIED)

Ref. No.	Parts No.	Description
⚠JAPAN	1-534-754-00	cord, power
⚠USA/CND	1-551-812-00	cord, power
⚠AEP	1-556-760-00	cord, power
	1-551-577-00	Cable with XLR plugs, 2m
	1-508-362-00	plug, XLR, 4P, female
	1-508-369-00	plug, XLR, 4P, male
	2-253-113-00	spacer
	2-253-117-00	cushion (front)
	2-253-118-00	cushion (rear)
	2-253-322-00	carton, individual (for USA, CND, J)
	2-253-323-00	carton, individual (for AEP)
	3-701-631-00	bag, poly (for manual)
	3-701-634-00	bag, poly (for AC-500)

Ref. No.	Parts No.	Description
	1-206-703-11	resistor, metal 120Ω 5% 3W

NOTE:

1. **The shaded and ⚠-marked components are critical to safety.**
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